

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2002, 04:03:35 ; Search time 303 Seconds
(without alignments)
4072.921 Million cell updates/sec

Title: US-09-744-679-7
Perfect score: 548
Sequence: 1 cgccgagggtcgcttgacc.....ccatcggtgtgttcctcg 548

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_101002:*
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2: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1981.DAT:*
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12: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1991.DAT:*
13: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1992.DAT:*
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22: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT:*
23: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT:*
24: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	548	100.0	548	21	AAZ50772 Human thrombin rec
2	548	100.0	3472	20	AAZ32191 Human thrombin rec
3	548	100.0	3480	13	AAQ28568 Human thrombin rec
4	548	100.0	3480	21	AAZ50771 Human thrombin rec
5	387	70.6	1278	24	ABK70889 Human cDNA encodin
6	328.4	59.9	2910	18	AAT62461 Thr-GPA1 fusion ge
7	322.4	58.8	6546	21	AAF21433 Human low adenosin
8	322.4	58.8	6546	21	AAA35311 Human adenosine re
9	321	58.6	3182	21	AAF21432 Human low adenosin

10	321	58.6	3182	21	AAA35310 Human adenosine re
11	282.4	51.5	1764	15	AAQ73590 Fragment of the hu
12	249	45.4	772	23	AAS68315 DNA encoding novel
13	240.8	43.9	1209	24	ABK70887 Human cDNA encodin
14	184.2	33.6	1312	18	AAT93367 Mouse thrombin rec
15	148.2	27.0	6436	24	ABL32681 Human immune syste
16	147	26.8	1116	24	ABK70888 Human cDNA encodin
17	146.6	26.8	6436	24	ABL32680 Human immune syste
18	146	26.6	572	21	AAA27044 Human cell surface
19	137.2	25.0	556	24	ABQ23658 Oligonucleotide fo
20	137.2	25.0	556	24	ABQ23659 Oligonucleotide fo
21	135.6	24.7	556	24	ABQ23660 Oligonucleotide fo
22	135.6	24.7	556	24	ABQ23661 Oligonucleotide fo
23	126.6	23.1	1300	19	AAV33372 PROLAC FLAG-conne
24	125.4	22.9	1300	19	AAV33371 PROLAC FLAG-conne
25	56	10.2	56	19	AAV33375 Fragment of thromb
26	55	10.0	55	19	AAV33376 Fragment of thromb
27	48.8	8.9	47981	22	AAF30757 Micromonospora meg
28	46	8.4	54	19	AAV33374 Fragment of thromb
29	44.6	8.1	192	18	AAT97178 Thrombin site-DR b
30	44.4	8.1	12111	22	ABA21422 Human nervous syst
31	42	7.7	3272	24	ABI99475 Mouse ischaemic co
32	41.8	7.6	2259	23	AAS79424 DNA encoding novel
33	40.8	7.4	67212	21	AAA08954 WFS1 variant genom
34	40.6	7.4	189	18	AAT97177 Thrombin site-DR a
35	40.6	7.4	2341	19	AAV62155 HSV-2 strain SB5 C
36	40.6	7.4	2694	19	AAV62145 HSV-2 strain SB5 C
37	40.6	7.4	117213	19	AAV62176 HSV-2 strain SB5 C
38	40.6	7.4	154746	24	AAD25519 Human herpesvirus
39	40.4	7.4	327	23	AAH88285 CNS disorder-relat
40	40.2	7.3	32195	22	AAS36105 Human cardiovascular
41	40.2	7.3	32195	22	AAS31532 Human DNA for a no
42	40.2	7.3	32195	22	AAS31538 Human DNA for a no
43	40.2	7.3	32195	23	ABK44045 Genomic DNA encodi
44	40.2	7.3	32195	24	ABQ66856 Human polynucleoti
45	40.2	7.3	32195	24	ABQ66862 Human polynucleoti

ALIGNMENTS

RESULT 1
AAZ50772
ID AAZ50772 standard; cDNA; 548 BP.
XX
AC AAZ50772;
XX
DT 31-MAY-2000 (first entry)
DE Human thrombin receptor antisense cDNA.
XX
KW Human; thrombin receptor; Thr; PAR-1; protease activated receptor;
KW antisense molecule; PAR antibody; cytostatic; therapeutic;
KW metastatic tumour cell; placental implantation; invasive cell; ss.
XX
OS Homo sapiens.
XX
PN WO200008150-A1.
XX
PD 17-FEB-2000.
XX
PF 05-FEB-1999; 99WO-IL00079.
XX
PR 07-AUG-1998; 98IL-0125698.
XX
PA (HADA-) HADASIT MEDICAL RES SERVICES & DEV.
XX
PI Bar-Shavit R;
XX
DR WPI; 2000-205706/18.
XX
PT Treating metastatic tumor cells useful for treating disorders involving placenta implantation in a female comprises administration of an

Db 484 TCATCTCAGAAAGATGCCTCCGGATATTGACCAGCTCCTGGTGACACTCTTTGTCCCAT 543

QY 481 CTGTGTACACCGGAGTGTGTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTGT 540

Db 544 CTGTGTACACCGGAGTGTGTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTGT 603

QY 541 TCATCCTG 548

Db 604 TCATCCTG 611

RESULT 3

AAQ28568

ID AAQ28568 standard; DNA; 3480 BP.

XX

AC AAQ28568;

XX

DT 15-FEB-1993 (first entry)

XX

DE Human thrombin receptor gene.

XX

KW Diagnosis; cardiovascular disease; wound healing; restenosis;

KW thrombosis; unstable angina treatment; myocardial infarction;

KW thrombotic; thromboembolytic stroke; ss.

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 225..1502

FT /*tag= a

FT sig_peptide 225..303

FT /*tag= b

FT mat_peptide 304..1502

FT /*tag= c

XX

PN WO9214750-A.

XX

PD 03-SEP-1992.

XX

PF 19-FEB-1992; 92WO-US01312.

XX

PR 19-FEB-1991; 91US-0657769.

PR 07-NOV-1991; 91US-0789184.

XX

PA (CORT-) COR THERAPEUTICS INC.

PA (REGC) UNIV CALIFORNIA.

XX

PI Coughlin SR, Scarborough RM;

XX

DR WPI; 1992-316119/38.

DR P-PSDB; AAR27240.

XX

PT DNA encoding cell surface receptor for thrombin - useful for

PT determining thrombin in diagnosing e.g. cardiovascular diseases,

PT also to treat wound healing, restenosis etc.

XX

PS Disclosure; Fig 1; 81pp; English.

XX

CC The sequence is that of the gene coding for human thrombin receptor.

CC It can be used in the prepn. of diagnostics to determine thrombin

CC levels in samples, and screening tools for candidate substances which

CC affect thrombin activity in vivo. Thrombosis may be diagnosed in a

CC mammal by measuring the presence, absence or amt. of the cleaved

XX activation peptide of the TR.

SQ Sequence 3480 BP; 947 A; 816 C; 786 G; 931 T; 0 other;

Query Match 100.0%; Score 548; DB 13; Length 3480;

Best Local Similarity 100.0%; Pred. No. 1.4e-138;

Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCCGAGGTGCTGGACCCCTGATCTTACCCGTGGGCACCCCTGCGCTCTGCTGCCGCG 60

|||||

Db 64 CGCCGAGGTGCTTGGACCCCTGATCTTACCCGTGGGCACCCCTGCGCTCTGCTGCCGCG 123

QY 61 AAGACCGGCTCCCGACCCGACAGAACTCAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120

Db 124 AAGACCGGCTCCCGACCCGACAGAACTCAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 183

QY 121 GGGCAGCCTCCCGGAGCAGCGCGCGCAGAGCCCGGGACAATGGGGCCGCGGCGTGC 180

Db 184 GGGCAGCCTCCCGGAGCAGCGCGCGCAGAGCCCGGGACAATGGGGCCGCGGCGTGC 243

QY 181 TGCTGTGGCGCGCTGCTTCAGTCTGTGCGGCGCGCTGTGTCTGCCCGCACCGGGCCCC 240

Db 244 TGCTGTGGCGCGCTGCTTCAGTCTGTGCGGCGCGCTGTGTCTGCCCGCACCGGGCCCC 303

QY 241 GCAGGCCAGAAATCAAAGCAACAATGCCACCTTAGATCCCCCGGTCAATTTCTTCTCAGGA 300

Db 304 GCAGGCCAGAAATCAAAGCAACAATGCCACCTTAGATCCCCCGGTCAATTTCTTCTCAGGA 363

QY 301 ACCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGTTAA 360

Db 364 ACCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGTTAA 423

QY 361 CTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAAACAACCTTCTGCAAT 420

Db 424 CTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAAACAACCTTCTGCAAT 483

QY 421 TCATCTCAGAAGATGCCTCCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT 480

Db 484 TCATCTCAGAAGATGCCTCCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT 543

QY 481 CTGTGTACACCGGAGTGTGTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTGT 540

Db 544 CTGTGTACACCGGAGTGTGTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTGT 603

QY 541 TCATCCTG 548

Db 604 TCATCCTG 611

RESULT 4

AAZ50771

ID AAZ50771 standard; DNA; 3480 BP.

XX

AC AAZ50771;

XX

DT 31-MAY-2000 (first entry)

XX

DE Human thrombin receptor DNA.

XX

KW Human; thrombin receptor; Thr; PAR-1; protease activated receptor;

KW antisense molecule; PAR antibody; cytostatic; therapeutic;

KW metastatic tumour cell; placental implantation; invasive cell; ds.

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 225..1502

FT /*tag= a

FT product= "Thrombin receptor"

FT transl_except= (pos:1500..1502, aa:Glx)

FT note= "no stop codon given"

FT misc_binding 320..570

FT /*tag= b

FT bound_moiety= "Thr RNA probe"

XX

PN WO200008150-A1.

XX

PD 17-FEB-2000.

XX

PF 05-FEB-1999; 99WO-IL00079.

XX

PR 07-AUG-1998; 98IL-0125698.

XX


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XX PR 06-APR-1999; 99US-0127958.
XX PA (UYEC-) UNIV EAST CAROLINA.
XX PA (NYCE/) NYCE J W.
XX PI Nyce JW;
XX XX WPI; 2000-679539/66.
XX DR
XX PT Low adenosine (A) content antisense oligonucleotides which do not
XX PT trigger adenosine receptors during metabolism, useful e.g. for treating
XX PT cancers and respiratory obstructions -
XX XX
XX PS Disclosure; Page 1416-1418; 1592pp; English.
XX XX
XX CC The present invention describes low adenosine (A) content antisense
XX CC oligonucleotides and compositions (I) comprising them. In the antisense
XX CC oligonucleotides the A is replaced by a 'Universal' or alternative base.
XX CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
XX CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.
XX CC The antisense oligonucleotides and (I) can be used to down-regulate the
XX CC expression and or activity of target polypeptides associated with
XX CC lung/respiratory disorders and malignancies, such as stimulating and
XX CC activating peptide factors and transmitters, transcription factors,
XX CC immunoglobulins and antibodies, antibody receptors, cytokines and
XX CC chemokines, endogenously produced specific and non-specific enzymes,
XX CC binding proteins, adhesion molecules and their receptors, cytokine and
XX CC chemokine receptors, adenosine receptors, bradykinin receptors, central
XX CC nervous system (CNS) and peripheral nervous and non-nervous system
XX CC receptors, CNS and peripheral nervous and non-nervous system peptide
XX CC transmitters, defensins, growth factors, vasoactive peptides and
XX CC receptors, binding proteins and malignancy associated proteins. The
XX CC antisense oligonucleotides may be used in this way to treat disorders
XX CC including respiratory obstruction (especially pulmonary obstruction
XX CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies)
XX CC and/or surfactant hypoproduction which are associated with a disease or
XX CC condition selected from pulmonary vasoconstriction, inflammation,
XX CC allergies, asthma, impeded respiration, respiratory distress syndrome
XX CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
XX CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
XX CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
XX CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
XX CC fragments and antisense oligonucleotides used in the exemplification of
XX CC the present invention.
XX XX
XX SQ Sequence 6546 BP; 1603 A; 1691 C; 1500 G; 1751 T; 1 other;

Query Match 58.8%; Score 322.4; DB 21; Length 6546;
Best Local Similarity 99.7%; Pred. No. 3.1e-77;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 225 GCCCGCACCCGGCCGAGCCAGCAATCAAAAGCAACAATGCCACCTTAGATCCCGG 284
Db || |||||
QY 3362 GCACGCACCCGGCCCGCAGCCAGCAATCAAAAGCAACAATGCCACCTTAGATCCCGG 3421
Db |||||
QY 285 TCATTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGAGGATGAGGAGAA 344
Db |||||
QY 3422 TCATTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGAGGATGAGGAGAA 3481
Db |||||
QY 345 AATGAAAGTGGTTAACTGAATACAGATTAGTCTCCATCAATAAAGCAGTCTCTTCAA 404
Db |||||
QY 3482 AATGAAAGTGGTTAACTGAATACAGATTAGTCTCCATCAATAAAGCAGTCTCTTCAA 3541
Db |||||
QY 405 AAACAACCTCCTGCATTCATCTCAGAAAGATGCCCTCCGGATATTTGACCAGTCTCTGGCTG 464
Db |||||
QY 3542 AAACAACCTCCTGCATTCATCTCAGAAAGATGCCCTCCGGATATTTGACCAGTCTCTGGCTG 3601
Db |||||
QY 465 ACACCTCTTTGTCCCATCTGTGTACACCCGGAGTGTTGTAGTACGCCCTCCCACTAAACATC 524
Db |||||
QY 3602 ACACCTCTTTGTCCCATCTGTGTACACCCGGAGTGTTGTAGTACGCCCTCCCACTAAACATC 3661
Db |||||
QY 525 ATGGCCATCGTTGTGTTTCATCCTG 548
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```
Db 3662 ATGGCCATCGTTGTGTTTCATCCTG 3685
|||||
RESULT 8
AAA35311
ID AAA35311 standard; DNA; 6546 BP.
XX
XX AAA35311;
AC
XX 28-JUL-2000 (first entry)
DT
XX Human adenosine receptor related polynucleotide 2nd SEQ ID NO:185.
DE
XX
XX Human; adenosine receptor; low adenosine antisense oligonucleotide;
KW phosphorothioate; impaired respiration; inflammation; allergy;
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
KW antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
XX
OS Homo sapiens.
PN WO200009525-A2.
XX
XX 24-FEB-2000.
PD
XX
XX 03-AUG-1999; 99WO-US17712.
PF
XX
XX 03-AUG-1998; 98US-0095212.
PR
XX
XX (UYEC-) UNIV EAST CAROLINA.
PA
XX
XX Nyce JW;
PI
XX
XX WPI; 2000-205971/18.
DR
XX
XX New antisense oligonucleotides useful for treating e.g. pulmonary
XX PT vasoconstriction, inflammation, allergies, asthma, hypertension,
XX PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
XX PT cancers -
XX XX
XX PS Disclosure; Page 1331-1333; 1343pp; English.
XX XX
XX CC The present invention describes a new composition comprising an
XX CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which
XX CC targets nucleic acids involved in bronchoconstriction, allergies, and/or
XX CC inflammation. The ON can have antiinflammatory, antiallergic,
XX CC antiasthmatic, cytostatic and analgesic activities. The compositions are
XX CC useful for the treatment of diseases associated with inflammation,
XX CC impaired airways, including lung disease and diseases whose secondary
XX CC effects afflict the lungs of a subject. They can be used for treating
XX CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies,
XX CC asthma, impeded respiration, respiratory distress syndrome, pain, cystic
XX CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
XX CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,
XX CC carcinomas, and cancers which may metastasise to the lungs, including
XX CC breast and prostate cancer. The reduction of the adenosine content of
XX CC the ONs reduces side effects. The A-containing ONs break down with the
XX CC release of deoxyadenosine which activates adenosine receptors causing
XX CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the
XX CC nucleotide sequences given in the sequence listing from the present
XX CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last
XX CC 185 sequences are also called SEQ ID NO:1 to 185, but the sequences
XX CC differ from the previously named sequences. SEQ ID NO:11 to 1680
XX CC (AAA32323 to AAA33992) are specifically claimed ONs from the present
XX CC invention. N.B. Sequences given in the disclosure of the present
XX CC invention do not match up with their corresponding SEQ ID NO: sequences
XX CC given in the sequence listing.
XX SQ Sequence 6546 BP; 1603 A; 1692 C; 1500 G; 1750 T; 1 other;
```


KW phosphorothioate; impaired respiration; inflammation; allergy;
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
KW antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway;
KW lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
KW cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
XX Homo sapiens.
OS
XX WO200009525-A2.
PN
XX
PD 24-FEB-2000.
XX
PF 03-AUG-1999; 99WO-US17712.
XX
PR 03-AUG-1998; 98US-0095212.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX
XX Nyce JW;
PI
XX WPI; 2000-205971/18.
DR
XX New antisense oligonucleotides useful for treating e.g. pulmonary
PT vasoconstriction, inflammation, allergies, asthma, hypertension,
PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
PT cancers
XX
PS Disclosure; Page 1330-1331; 1343pp; English.
XX
XX The present invention describes a new composition comprising an
CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which
CC targets nucleic acids involved in bronchoconstriction, allergies, and/or
CC inflammation. The ON can have antiinflammatory, antiallergic,
CC antiasthmatic, cytostatic and analgesic activities. The compositions are
CC useful for the treatment of diseases associated with inflammation,
CC impaired airways, including lung disease and diseases whose secondary
CC effects afflict the lungs of a subject. They can be used for treating
CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies,
CC asthma, impeded respiration, respiratory distress syndrome, pain, cystic
CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,
CC carcinomas, and cancers which may metastasize to the lungs, including
CC breast and prostate cancer. The reduction of the adenosine content of
CC the ONs reduces side effects. The A-containing ONs break down with the
CC release of deoxyadenosine which activates adenosine receptors causing
CC bronchoconstriction and inflammation. AAA32313 to AAA35312 represent the
CC nucleotide sequences given in the sequence listing from the present
CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last
CC 185 sequences are also called SEQ ID NO:1 to 185, but the sequences
CC differ from the previously named sequences. SEQ ID NO:11 to 1680
CC (AAA32323 to AAA33992) are specifically claimed ONs from the present
CC invention. N.B. Sequences given in the disclosure of the present
CC invention do not match up with their corresponding SEQ ID NO: sequences
CC given in the sequence listing.
XX
SQ Sequence 3182 BP; 895 A; 701 C; 684 G; 902 T; 0 other;

Query Match 58.6%; Score 321; DB 21; Length 3182;
Best Local Similarity 100.0%; Pred. No. 5.6e-77;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 228 CGCACCGGGCCCGCAGAGATCAAAAGCAACAAATGCCACCTAGATCCCGGTCA 287
Db 1 CGCACCGGGCCCGCAGAGATCAAAAGCAACAAATGCCACCTAGATCCCGGTCA 60
QY 288 TTTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAT 347
Db 61 TTTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAT 120
QY 348 GAAAGTGGGTAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAA 407

Db 121 GAAAGTGGGTAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAA 180
QY 408 CAACTTCTGCAATTCATCTCAGAAGATGCCTCCGATATTTGACCAGCTCCTGGCTGACA 467
Db 181 CAACTTCTGCAATTCATCTCAGAAGATGCCTCCGATATTTGACCAGCTCCTGGCTGACA 240
QY 468 CTCTTTTCCCATCTGTGTACACCGGAGTGTGTTGTAGTCAGCCTCCCACATAAACATCATG 527
Db 241 CTCTTTTCCCATCTGTGTACACCGGAGTGTGTTGTAGTCAGCCTCCCACATAAACATCATG 300
QY 528 GCCATCGTGTGTTTCATCCTG 548
Db 301 GCCATCGTGTGTTTCATCCTG 321
RESULT 11
AAQ73590
ID AAQ73590 standard; DNA; 1764 BP.
XX
AC AAQ73590;
XX
DT 25-JUN-1995 (first entry)
XX
DE Fragment of the human thrombin receptor gene.
XX
KW TR; expression; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 376..1653
FT /*tag= a
XX
XX WO9421789-A.
PN
XX 29-SEP-1994.
PD
XX 28-FEB-1994; 94WO-US02388.
PF
XX 25-MAR-1993; 93US-0038662.
PR
XX (REGC) UNIV CALIFORNIA.
PA
PI Betlach MC, Turner GJ;
XX
DR WPI; 1994-317010/39.
DR P-PSDB; AAR60698.
XX
XX Expression of heterologous proteins in halo-bacteria - using
PT regulatory and stop sequences from halo-bacteria, pref. the
PT bacterio-rhodopsin gene.
XX
PS Disclosure; Fig 14; 118pp; English.
XX
CC The sequence is that of the human thrombin receptor gene fragment.
CC The gene is used to exemplify a new expression vector for producing
CC heterologous polypeptides in a halobacterial host.
CC See also AAQ73586-92.
XX
SQ Sequence 1764 BP; 382 A; 492 C; 421 G; 469 T; 0 other;

Query Match 51.5%; Score 282.4; DB 15; Length 1764;
Best Local Similarity 99.6%; Pred. No. 1.3e-66;
Matches 283; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 265 ATGCCACCTTAGATCCCCGGTCAATTTCTTCTCAGGAACCCCAATGATAAATATGAACCAT 324
Db 461 ACGCCACCTTAGATCCCCGGTCAATTTCTTCTCAGGAACCCCAATGATAAATATGAACCAT 520
QY 325 TTTGGGAGGATGAGGAGAAAATGAAAGTGGTTAACTGAATACAGATTAGTCTCCATCA 384
Db 521 TTTGGGAGGATGAGGAGAAAATGAAAGTGGTTAACTGAATACAGATTAGTCTCCATCA 580

QY 385 ATAAAGCAGTCCTCTTCAAAACAACTTCCTGCATTCATCTCAGAAGATGCCTCCGGAT 444
|||||
Db 581 ATAAAGCAGTCCTCTTCAAAACAACTTCCTGCATTCATCTCAGAAGATGCCTCCGGAT 640
|||||
QY 445 ATTTGACCAGCTCCTGGCTGACACTCTTTGTGCCATCTGTGTACACCGGAGTCTTTGTAG 504
|||||
Db 641 ATTTGACCAGCTCCTGGCTGACACTCTTTGTGCCATCTGTGTACACCGGAGTCTTTGTAG 700
|||||
QY 505 TCAGCTCCCACTAAACATCATGGCCATCGTTGTGTTTCATCCTG 548
|||||
Db 701 TCAGCTCCCACTAAACATCATGGCCATCGTTGTGTTTCATCCTG 744
|||||
RESULT 12
AAS68315
ID AAS68315 standard; cDNA; 772 BP.
XX
AC AAS68315;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #4119.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI; 2001-639362/73.
DR P-PSDB; ABG04128.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
PS Claim 1; SEQ ID No 4119; 103pp; English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX

SQ Sequence 772 BP; 194 A; 191 C; 223 G; 164 T; 0 other;
Query Match 45.4%; Score 249; DB 23; Length 772;
Best Local Similarity 100.0%; Pred. No. 1.le-57;
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CGCCGAGGTCGCTTGGACCCCTGATCTTACCCGTGGGCACCTGCGCTCTGCGCTGCCGCG 60
|||||
Db 96 CGCCGAGGTCGCTTGGACCCCTGATCTTACCCGTGGGCACCTGCGCTCTGCGCTGCCGCG 155
|||||
QY 61 AAGACCGGCTCCCGACCCGCAAGTCAAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120
|||||
Db 156 AAGACCGGCTCCCGACCCGCAAGTCAAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 215
|||||
QY 121 GGGGACGCTCCCGGAGCAGCGCCGCGCAGAGCCCGGACAAATGGGGCGCGGCTGC 180
|||||
Db 216 GGGGACGCTCCCGGAGCAGCGCCGCGCAGAGCCCGGACAAATGGGGCGCGGCTGC 275
|||||
QY 181 TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGGCCGCTGTGCTGCCCGCACCGGGGCCC 240
|||||
Db 276 TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGGCCGCTGTGCTGCCCGCACCGGGGCCC 335
|||||
QY 241 GCAGGCCAG 249
|||||
Db 336 GCAGGCCAG 344
|||||
RESULT 13
ABK70887
ID ABK70887 standard; cDNA; 1209 BP.
XX
AC ABK70887;
XX
DT 15-JUL-2002 (first entry)
XX
DE Human cDNA encoding PAR1 type thrombin receptor delta 1-49TR.
XX
KW Human; ss; gene; PAR1; thrombin receptor; antiinflammatory; cytostatic;
KW inflammatory disease; cell proliferative disease.
XX
OS Homo sapiens.
XX
PN JP2002010784-A.
XX
PD 15-JAN-2002.
XX
PF 29-JUN-2000; 2000JP-0196514.
XX
PR 29-JUN-2000; 2000JP-0196514.
XX
PA (TEIJ) TEIJIN LTD.
XX
DR WPI; 2002-321520/36.
DR P-PSDB; ABG35298.
XX
PT An inhibitor of cell growth mediated by thrombin used to treat
PT inflammatory and cell proliferative diseases -
PS Example 1; Page 22-24; 44pp; Japanese.
XX
CC The invention relates to a polypeptide or a compound which can inhibit
CC cell growth caused by thrombin. The polypeptide/compound combines to a
CC specific region of the structure of PAR1 type human thrombin receptor
CC participating to cell growth. Preferably, the compound contains the
CC 52nd to the 56th amino acid sequences at the amino end side of PAR1 type
CC human thrombin receptor ((X4)-Tyr-Glu-Pro-Phe-Trp-(X5) X4, X5 = optional
CC amino acid or peptide sequence). Also included are a modified PAR1 type
CC thrombin receptor gene or its fragment used for obtaining the above
CC polypeptide, a human PAR1 type thrombin receptor protein and its
CC encoding DNA comprising a fully. The polypeptide or the compound is used
CC to treat inflammatory diseases and cell proliferative diseases. The
CC present sequence is a cDNA encoding a PAR1 type thrombin receptor (or a
CC modified version).

```
XX SQ Sequence 1209 BP; 254 A; 330 C; 273 G; 352 T; 0 other;
Query Match 43.9%; Score 240.8; DB 24; Length 1209;
Best Local Similarity 93.7%; Pred. No. 2.3e-55;
Matches 251; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 281 CCGGTCATTTCTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGA 340
Db 51 CCCGCTGTTGCTGCCCGCACCCGGCCGATAAATATGAACCATTTTGGGAGGATGAGGA 110

QY 341 GAAAAATGAAAGTGGGTTAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCT 400
Db 111 GAAAAATGAAAGTGGGTTAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCT 170

QY 401 TCAAAAACAACCTCTGCTGCATTCATCTCAGAAGATGCCCTCGGATATTTGACCAGCTCCTG 460
Db 171 TCAAAAACAACCTCTGCTGCATTCATCTCAGAAGATGCCCTCGGATATTTGACCAGCTCCTG 230

QY 461 GCTGACACTCTTTGTCCCATCTGTGTACACCGGAGTGTGTTAGTCAGCCTCCCACTAAA 520
Db 231 GCTGACACTCTTTGTCCCATCTGTGTACACCGGAGTGTGTTAGTCAGCCTCCCACTAAA 290

QY 521 CATCATGGCCATCGTTGTGTTTCATCCTG 548
Db 291 CATCATGGCCATCGTTGTGTTTCATCCTG 318

RESULT 14
AAT93367
ID AAT93367 standard; cDNA; 1312 BP.
AC AAT93367;
XX 01-MAY-1998 (first entry)
DE Mouse thrombin receptor cDNA.
XX Transgenic animal; thrombin receptor; animal model; restenosis;
KW knockout animal; antagonist; agonist; mouse; murine;
KW Alzheimer's disease; wound repair; ss.
XX Mus sp.
XX Key Location/Qualifiers
FH primer_bind complement (612..631)
FT /*tag= a
FT /label= MTR-3
FT 1294..1311
FT /*tag= b
FT /label= MTR-2
XX WO9740138-A1.
PN 30-OCT-1997.
XX 22-APR-1997; 97WO-US06575.
XX 25-JUN-1996; 96US-0020544.
PR 23-APR-1996; 96US-0016070.
XX (ORTH ) ORTHO PHARM CORP.
XX Andrade-Gordon P, Leung W, Zhou L;
XX WPI; 1997-535823/49.
XX Transgenic animals with altered form of thrombin receptor gene -
PT useful in study of receptor function and identification of
PT antagonists and agonists for disease therapy
XX Example 1; Fig 1; 47pp; English.
PS
XX
```

```
CC The present sequence was used in the preparation of a transgenic
CC non-human vertebrate with somatic and germ cells containing an
CC altered form of a thrombin receptor (TR) gene, where the altered
CC gene has replaced a wild type TR gene in the animal or an ancestor
CC at an embryonic stage using embryonic stem cells. The transgenic
CC animal provides an animal model to understand receptor function in,
CC e.g. platelets, endothelial cells and neurons, and evaluate drug
CC therapies modulating TR function/expression in human cells.
CC Alterations rendering the wild type gene non-functional produce
CC knockout animals, useful as non-human whole animal models for
CC diseases involving TR equivalents in humans. Alternatively,
CC substituting the naturally occurring gene for a gene from a 2nd
CC species or with a mutation, results in animals producing the 2nd
CC species or mutated gene products. These transgenic animals are
CC useful for drug antagonist and agonist studies, creation of animal
CC models of human diseases and investigation of disorders associated
CC with human TR-mediated responses. Antagonists may be used
CC therapeutically for cardiovascular problems, e.g. restenosis, to
CC limit platelet adhesion during interventional procedures or to
CC generate therapies for bone degenerative and neurodegenerative
CC diseases, e.g. Alzheimer's. Agonists may be useful in wound repair.
XX
SQ Sequence 1312 BP; 247 A; 406 C; 328 G; 331 T; 0 other;
Query Match 33.6%; Score 184.2; DB 18; Length 1312;
Best Local Similarity 67.8%; Pred. No. 5.4e-40;
Matches 280; Conservative 0; Mismatches 118; Indels 15; Gaps 1;

QY 151 AGCCGGGACAATGGGGCGCGGGCTGCTGCTGGTGGCGGCTTCTCAGTCTGTGCG 210
Db 4 AGCCTTGGACAATGGGGCGCGGGCTTGTGCTGCTGCGGCTTCTCAGTCTGTGCG 63

QY 211 GCCCGCTGTTGTCGCCCGCACCCGGGGCCCGAGAGCCAGAAATCAAAGCAACAAATGCCA 270
Db 64 GTCCCTTGCTGTTCTCCCGGCTCCCTATGAGCCAGCCAGAAATCAGAGGACAGATGCTA 123

QY 271 CCTTAGATCCCCGGTCAATTTCTTCTCAGGAACCCCAATGATAAATGAACCATT----- 325
Db 124 CGGTGAACCCCGCTCAATTTCTTCTAAGGAATCCAGTCCAGTGAATAATGAACTGGTCC 183

QY 326 -----TTGGGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 375
Db 184 CCCTGGGGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 243

QY 376 TCTCCATCAATAAAGCAGTCTCTTCAAAAACAACCTTCTGCTGCTGCTGCTGCTGCTGCTG 435
Db 244 TCTACTTAAATATAAGCCTCCCTCTCACACGCGCGCTCCTCCCTTCTCATCTCCGAGGAC 303

QY 436 CCTCCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCCTGCTGCTGCTGCTGCTG 495
Db 304 CCTCCGGATATCTGACCAGCCCTTGGCTGACGCTCTTCATGCCCCCTCCGCTGACACGATTG 363

QY 496 TGTTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTGTTTCATCCTG 548
Db 364 TGTTTGTAGTCAGCCTTCTCTGAAACGCTCCTGGCCATCGCAGTGTTCGTTCTTG 416

RESULT 15
ABL32681/c
ID ABL32681 standard; DNA; 6436 BP.
XX
AC ABL32681;
XX 26-MAR-2002 (first entry)
XX Human immune system associated gene SEQ ID NO: 654.
DE
XX Human; immune system disease; cytosine methylation; antiasthmatic;
KW antiarteriosclerotic; antianaemic; cytosine methylation; antiasthmatic;
KW neuroprotective; anti-HIV; anticonvulsant; ophthalmological;
KW antirheumatic; antiarthritic; antidiabetic; antipsoriatic;
KW antiinflammatory; cancer; eye disease; arteriosclerosis; anaemia;
KW acute myeloid leukaemia; Alzheimer's disease; AIDS; epilepsy;
KW
```

KW neurofibromatosis; rheumatoid arthritis; psoriasis; bowel disease;
KW gene; ds.

KW gene; ds.

OS Homo sapiens.

PN WO200200928-A2.

PD 03-JAN-2002.

XX
PF
02-JUL-2001; 2001WO-EP07537.

PR 30-JUN-2000; 2000DE-1032529.

PR 01-SEP-2000; 2000DE-1043826.
PR 01-SEP-2000; 2000DE-1043826.
PR 01-SEP-2000; 2000DE-1043826.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2002-130909/17.

PT Nucleic acid comprising fragment of chemically modified gene, useful
PT for diagnosis and treatment of diseases associated with abnormal
PT cytosine methylation - PT

FI Nucleic acid comprising fragment of chemically modified gene, useful for diagnostic and treatment of cancer.

PT cytosine methylation

PS Claim 1; SEQ ID NO 654; 32pp + Sequence Listing; German.

The present invention provides a number of human immune system associated genes which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disorders, including eye diseases such as retinopathy, neovascular glaucoma and macular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid leukaemia, Alzheimer's disease, AIDS, epilepsy, neurofibromatosis, rheumatoid arthritis, psoriasis and inflammatory/ulcerative bowel diseases. The present sequence is a gene of the invention.

CC The present invention provides a number of human immune system associated

CC genes which are modified by the methylation of cytosines. The sequences

CC can be used in the diagnosis and treatment of immune system disorders.

including eye diseases such as retinopathy, neovascular glaucoma and

CC macular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid leukaemia, diabetes, retinopathy, neovascular glaucoma and

CC leukaemia, Alzheimer's disease. AIDS. epilepsy neurofibromatosis
CC leukaemia, acute myeloid

CC rheumatoid arthritis, psoriasis and inflammatory/intestinal bowel disease, AIDS, epilepsy, neuroblastoma,

diseases: the present sequence is a gene of the invention.

XX
XX

Sequence 6436 BP; 1509 A; 261 C; 1477 G; 3189 T; 0 other;

Query Match	27.0%;	Score 148.2;	DB 24;	Length 6436;
Best Local Similarity	72.5%;	Pred. NO. 5.9e-30;		
Matches 192; Conservative	0;	Mismatches 73;	Indels 0;	Gaps 0;

Query match	27.0%	SCORE 146.2; DB 2
Best Local Similarity	72.5%	Pred NC 5 96-30:

100% local similarity 72.5%, Freq. NO: 3.9e-30;
 Matches 192; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 CGCCGAGGGTCGCTTGGACCTGATCTTACCCGTGGGCACCCCTGCGCTCTGCCCTGCCGCG 60

[illegible]

QY 61 AAGACCGGCTCCCCGACCCGAGAGTCAAGCGGAGCAGCCCGAGGC 12

[illegible]

QV 121 GGGGCAGCCTCCCGGAGCAGGCGCGGAGAGCCCGGGACCATCGGGCCCGCCGCTCC 18

18

QY 181 TGCTGGTGGCCGCCCTGCTTCAGTCTGTGCGGCCCGCTGTTCTCTGCCCCCACCCCCCCC

101 19C1GG1GGCCCGCC1GCTTCAG1CTGTGTGGCCCGCC1G1TGTCT1GCCCGCACCCGGGCC 24

QY 241 GCAGGCCAGAAATCAAAGCAACAA 265

[illegible]

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Job time : 318 secs

Job time : 318 secs

GenCore version 5.1.1.3
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2002, 04:10:21 ; Search time 93 Seconds
(without alignments)
2297.668 Million cell updates/sec

Title: US-09-744-679-7
Perfect score: 548
Sequence: 1 cgccgagggtcgcttgacc.....ccatcgtgtgttcacctg 548

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 350425 seqs, 194966369 residues

Total number of hits satisfying chosen parameters: 700850

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
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7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
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13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44.6	8.1	192	9	US-09-925-664-33
2	40.6	7.4	189	9	US-09-925-664-31
3	40.2	7.3	32195	10	US-09-764-870-611
4	40.2	7.3	32195	10	US-09-764-870-617
5	40.2	7.3	32195	10	US-09-764-869-1605
6	39.6	7.2	409	10	US-09-960-352-13321
7	37.8	6.9	286	9	US-10-096-549-4
8	37.6	6.9	2850	12	US-10-074-527-1
9	37.6	6.9	14486	9	US-09-764-868-1504
10	37.4	6.8	1631	10	US-09-925-300-528
11	37.4	6.8	43058	10	US-09-954-456-292
12	37.4	6.8	43058	10	US-09-954-456-529
13	37.4	6.8	43058	10	US-09-880-107-3950
14	37.2	6.8	193	10	US-09-864-761-21978
15	37.2	6.8	12425	12	US-10-023-529-50
16	37.2	6.8	12425	12	US-10-023-523-50
17	37	6.8	80959	9	US-09-858-546-3
18	36.4	6.6	1407	10	US-09-833-381-1620
19	36	6.6	3715	10	US-09-880-107-2300

c	20	35.8	6.5	333	10	US-09-960-352-5606	Sequence 5606, Ap
c	21	35.8	6.5	2561	12	US-10-023-529-48	Sequence 48, Appl
c	22	35.8	6.5	2561	12	US-10-023-523-48	Sequence 48, Appl
	23	35.6	6.5	1746	12	US-10-074-527-3	Sequence 3, Appli
c	24	35.4	6.5	930	9	US-09-960-631A-4	Sequence 4, Appli
c	25	35.2	6.4	4973	12	US-10-044-090-293	Sequence 293, App
c	26	35.2	6.4	5119	9	US-09-887-540A-1	Sequence 1, Appli
c	27	35	6.4	2538	9	US-10-136-573A-1	Sequence 1, Appli
c	28	35	6.4	2538	9	US-09-877-665-1	Sequence 1, Appli
c	29	35	6.4	2538	10	US-09-817-647-1	Sequence 1, Appli
c	30	34.8	6.4	1224	10	US-09-815-242-7867	Sequence 7867, Ap
c	31	34.8	6.4	2175	10	US-09-834-975-795	Sequence 795, App
c	32	34.8	6.4	88421	9	US-09-976-059-1	Sequence 1, Appli
	33	34.6	6.3	405	10	US-09-864-761-6167	Sequence 6167, Ap
	34	34.6	6.3	1110	10	US-09-893-737-49	Sequence 49, Appl
c	35	34.6	6.3	2750	10	US-09-905-983-51	Sequence 51, Appl
c	36	34.6	6.3	4000	10	US-09-954-456-2153	Sequence 2153, Ap
c	37	34.6	6.3	4000	10	US-09-880-107-3803	Sequence 3803, Ap
c	38	34.6	6.3	4826	10	US-09-772-304A-1	Sequence 1, Appli
	39	34.6	6.3	42999	9	US-09-799-462A-17	Sequence 17, Appl
	40	34.6	6.3	42999	9	US-10-125-767-17	Sequence 17, Appl
	41	34.4	6.3	916	10	US-09-764-870-123	Sequence 123, App
	42	34.4	6.3	1668	10	US-09-993-811-13	Sequence 13, Appl
	43	34.4	6.3	2499	10	US-09-350-259-96	Sequence 96, Appl
	44	34.4	6.3	3124	9	US-09-974-298-128	Sequence 128, App
	45	34.4	6.3	3230	12	US-10-002-600-47	Sequence 47, Appl

ALIGNMENTS

RESULT 1
US-09-925-664-33
; Sequence 33, Application US/09925664
; Patent No. US20020160006A1
; GENERAL INFORMATION:
; APPLICANT: Denney, Jr., Dan W.
; TITLE OF INVENTION: Methods of Treating Lymphoma and Leukemia
; FILE REFERENCE: GENITOPe-06499
; CURRENT APPLICATION NUMBER: US/09/925,664
; CURRENT FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/370,453
; PRIOR FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: 08/644,664
; PRIOR FILING DATE: 1996-05-01
; PRIOR APPLICATION NUMBER: 08/761,277
; PRIOR FILING DATE: 1996-12-06
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 192
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; NAME/KEY: CDS
; LOCATION: (1)..(189)
; OTHER INFORMATION:
US-09-925-664-33

Query Match 8.1%; Score 44.6; DB 9; Length 192;
Best Local Similarity 71.1%; Pred. No. 0.00093;
Matches 59; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 273 TTAGATCCCCGGTCATTTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGGAG 332
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Db 1 TTGGATCCACCATCGTTTCTATTGCGCAATCCAATGATAAATGACGAACCATTTTGGGAA 60

QY 333 GATGAGGAGAAAAATGAAAGTGG 355
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Db 61 GATCAGAGCAAGATGCTGAGTGG 83


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Db 22610 CCTCTGCCAACCCGCCCCGTTCCACGCAGGTGCTCCGGGTGCACCCGCGCAGACCGGAG 22669
QY 90 GGAGAGAGGGTGAAGCGGAGCAGCCCCGAGGCGGGGCGAGCCTCCCGGAGCAGCGCGCGCA 149
Db 22670 GCCGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCCGCGCCACCTGGGGGCCCTGCTGAGC 22729
QY 150 GAGCCCCGGACAATGGGGCCGCGGGCTGCTGCTGGTGGCCGCTGCTTCACTCTGTGTC 209
Db 22730 GCGCTAGCCGCTCGGTTTCGGCGTGCCCCGCCGTGGTGGCGCCACCTTCGCGCAGCTC 22789
QY 210 GGCCCCGCTGTTGCTGCCCGCACCCGCGGCGCCGCGCAGGCCAGA 250
Db 22790 TTCCGGCGGTGCGGAGCGCTTCCCCGGCGGCCACGACA 22830

RESULT 6
US-09-960-352-13321
; Sequence 13321, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960.352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 13321
; LENGTH: 409
; TYPE: DNA
; ORGANISM: Bos taurus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (297)
; OTHER INFORMATION: unsure at all n locations
; OTHER INFORMATION: Clone ID: 57-LIB3057-006-Q1-K1-G2
US-09-960-352-13321
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Query Match 7.2%; Score 39.6; DB 10; Length 409;
Best Local Similarity 49.7%; Pred. No. 0.039;
Matches 99; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

QY 29 ACCCGTGGGACCCCTGCGCTCTGCTGCGCGGAGACCGGCTCCCGACCCGCGCAGAGTC 88
Db 205 ACCCCCCCTGCCCGGGCGCGGCGGATGAACCTCGACCTTCCTGAACACACAGCGGCC 264

QY 89 AGGAGAGAGGGTGAAGCGGAGCAGCCCGGAGGCGGGGCGAGCCTCCCGGAGCAGCGCGCGC 148
Db 265 TGGAGACAGCGGGTGGCTTGGCGCGGCGCGCGCTGCTGCTGGTGGCCGCTGCTTCACTCTGTG 208

QY 149 AGAGCCCGGACAATGGGGCCGCGCGGGCTGCTGCTGGTGGCCGCTGCTTCACTCTGTG 208
Db 325 ACGGCTTGGGCACGTGGCTGGGCTGCTGGCCCTGGGGTGGCGGCTGTCCGCCAACGACG 384

QY 209 CGGCCCGCTGTTGTCTGCC 227
Db 385 GGGTCCCCCGGGGCTGGC 403
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RESULT 7
US-10-096-549-4/c
; Sequence 4, Application US/10096549
; Patent No. US20020165191A1
; GENERAL INFORMATION:
; APPLICANT: Moonen, Chrit
; TITLE OF INVENTION: Spatial and Temporal Control of Gene
; Expression Using a Heat Shock Protein Promoter in
; Combination with Local Heat
; NUMBER OF SEQUENCES: 7
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```

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/096,549
; FILING DATE: 11-Mar-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/242,244
; FILING DATE: 29-Feb-2000
; APPLICATION NUMBER: WO PCT/US97/15270
; FILING DATE: 14-AUG-1997
; APPLICATION NUMBER: US 60/024,213
; FILING DATE: 15-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A.
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 15280-2641PC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..286
; OTHER INFORMATION: /note= "human heat shock protein
; (hsp70B) promoter"
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-096-549-4

Query Match 6.9%; Score 37.8; DB 9; Length 286;
Best Local Similarity 60.0%; Pred. No. 0.11;
Matches 63; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 69 CTCCTCCGACCCCGCAGAGTCAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGCGGGGCGAGC 128
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QY 129 CTCCTCCGAGCAGCGCGCGCAGAGCCCGGGGACAAATGGGGCCCGG 173
Db 167 CGGGCGGCGCAGCGCGCGCTGACCCCGGAGAGGTTTCGGGCGG 123

RESULT 8
US-10-074-527-1
; Sequence 1, Application US/10074527
; Patent No. US20020142426A1
; GENERAL INFORMATION:
; APPLICANT: Olandt, Peter J.
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Galvin, Katherine A.
; APPLICANT: Millennium Pharmaceuticals Inc.
; TITLE OF INVENTION: 33945, A Human Glycosyltransferase and
; TITLE OF INVENTION: Uses Therefor
; FILE REFERENCE: MPI2001-018PIRCP1(M)
; CURRENT APPLICATION NUMBER: US/10/074,527
; CURRENT FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 60/269202
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; PRIOR FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2850
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (81)...(1826)
US-10-074-527-1

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Best Local Similarity 51.8%; Pred. No. 0.42;
Matches 85; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

; QY 90 GGAGAGAGGGTGAACGGAGCAGCCCGGAGCGGGGCGAGCCTCCCGGAGCAGCGCGCGCA 149
;      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
; Db 72 GCGGGGCGCATGTGGGGCGCACGGCGCGGCGCGCTGCCCGGGGAAC TGCGGCGCGGC 131
;
; -QY 150 GAGCCCCGGACAATGGGGCCGCGGCTGCTGCTGGTGGCGGCCTGCTTCAGTCTGTGC 209
;      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
; Db 132 CCGAGGCGCTGTGGTGCTCCTGGCGCTACTGGCGTTGGCCGGGCTGGGCTCGGTGCTG 191
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; QY 210 GGCCCCGCTGTTGTGCCCCGACCCGGGCGCGCAGGCCGAGCCAGATC 253
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; Db 192 CGGCGCAGCGTGTGGGCCGGGGCGGGGCTGCCGAGCCGGGACC 235
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RESULT 9
US-09-764-868-1504/c
; Sequence 1504, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PTZ32
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1504
; LENGTH: 14486
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-1504

Query Match          6.9%; Score 37.6; DB 9; Length 14486;
Best Local Similarity 53.8%; Pred. No. 1;
Matches 99; Conservative 0; Mismatches 84; Indels 1; Gaps 1;

; QY 66 CGGCTCCCGACCCCGCAGAGTCAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGCGGGGC 125
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; Db 4230 CGGGCCCCGAACTGCAGGAGGAGG-TAGAGCGGGCGGTGAGCGCCCGGAGCCTCGCT 4172
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; QY 126 AGCCTCCCGAGCAGCGCGCGCAGAGCCCGGACAATGGGGCCCGCGGGCTGCTGTG 185
;      ||||| | | | | | | | | | | | | | | | | | | | | | | | | | |
; Db 4171 GCGTCCCGACCCCTCCCTCCCGAGCCGCGCCTACTGGAGCTCCGGCGGCTGTGAGG 4112
;
; QY 186 GTGGCCGCTGCTTCAGTCTGTGCGGGCCCGCTGTTGTCTGCCCGCACCCCGGGCCCGCAGG 245
;      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
; Db 4111 CGCAGCAGCGGCTTGACACCCAGTCCGACTCCTCTCTCTGTCCTCCCGGCGCTCAGC 4052
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; QY 246 CCAG 249
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; Db 4051 TCCG 4048
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RESULT 10
US-09-925-300-528
; Sequence 528, Application US/09925300
; Patent No. US20020151681A1
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; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 528
; LENGTH: 1631
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1628)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-300-528

Query Match          6.8%; Score 37.4; DB 10; Length 1631;
Best Local Similarity 60.2%; Pred. No. 0.36;
Matches 62; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

; QY 118 GGCGGGCAGCCTCCCGGAGCAGCGCGCGCAGAGCCCGGACAATGGGGCCCGCGCGC 177
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; Db 39 GGCGGGGAGCCGACCCCGAGCCGAGCCGAGCCGAGCCGAGCGCGGCGCGGAAGGC 98
;
; QY 178 TGCTGTGGTGGCGGCTGCTTCAGTCTGTGCGGCGCGCTGTT 220
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; Db 99 CGGCGCGGAGCAGCAACCATGTGCGTGTTCGGAAGCTGTT 141
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RESULT 11
US-09-954-456-292
; Sequence 292, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 292
; LENGTH: 43058
; TYPE: DNA
; ORGANISM: Homo sapiens
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2002, 04:06:36 ; Search time 2427 seconds
(without alignments)
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Title: US-09-744-679-7
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- EST:*
- 1: em_estba:*
 - 2: em_esthum:*
 - 3: em_estin:*
 - 4: em_estmu:*
 - 5: em_estov:*
 - 6: em_estpl:*
 - 7: em_estro:*
 - 8: em_htc:*
 - 9: gb_est1:*
 - 10: gb_est2:*
 - 11: gb_htc:*
 - 12: gb_est3:*
 - 13: gb_est4:*
 - 14: gb_est5:*
 - 15: em_estfun:*
 - 16: em_estom:*
 - 17: gb_gss:*
 - 18: em_gss_hum:*
 - 19: em_gss_inv:*
 - 20: em_gss_pln:*
 - 21: em_gss_vrt:*
 - 22: em_gss_fun:*
 - 23: em_gss_mam:*
 - 24: em_gss_mus:*
 - 25: em_gss_other:*
 - 26: em_gss_pro:*
 - 27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	505.2	92.2	739	12	BG473471 602516274
4	197	35.9	496	11	BC016059 Homo sapi
5	183	33.4	621	10	BB662299 BB662299
6	183	33.4	674	13	BI685426 603308867

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8	182.4	33.3	949	14	BQ923464
9	180.8	33.0	584	13	BI738768
10	175.8	32.1	688	9	AA882290
11	165.6	30.2	672	12	BE911999
12	162.2	29.6	763	13	BI666195
13	159.2	29.1	467	10	BB862683
14	157.6	28.8	466	10	BB852109
15	152	27.7	1429	14	BQ926183
16	145.8	26.6	405	12	BF116952
17	133	24.3	557	12	BG067569
18	132	24.1	554	14	C87335
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22	126	23.0	350	12	BF407166
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33	67.8	12.4	683	9	AJ449531
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ALIGNMENTS

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DEFINITION AGENCOURT_7907353 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:6154861
5', mRNA sequence.
ACCESSION BQ440574
VERSION BQ440574.1 GI:21179650
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 888)
REFERENCE NIH-MGC <http://mgc.nci.nih.gov/>.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM13496 row: j column: 14
High quality sequence stop: 654.
Location/Qualifiers
source 1..888

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/tissue_type="retinoblastoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: eye; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.75 kb. Library constructed by Life
Technologies."
BASE COUNT 181 a 263 c 237 g 207 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.1e-127;
. Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCCGAGGTCGCTGGACCCCTGATCTTACCCGTGGGACCCCTGCGCTCTGCTGCCGCG 60
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QY 121 GGGCAGCCTCCCGAGCAGCGCCGCGCAGAGCCCGGACAAATGGGGCCCGCGGCTGC 180
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Db 445 TCATCTCAGAAAGATGCCCTCCGGATATTGACCACTCCTGGCTGACACTCTTTGTCCCAT 504
QY 481 CTGTGTACACCGGAGTGTGTGTAGTCAGCCTCCCACTAAACATCATGCCCATCGTTGTGT 540
Db 505 CTGTGTACACCGGAGTGTGTGTAGTCAGCCTCCCACTAAACATCATGCCCATCGTTGTGT 564
QY 541 TCATCCTG 548
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RESULT 2
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LOCUS 601106874F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343051 5',
DEFINITION mRNA sequence.
ACCESSION BE258615
VERSION BE258615.1 GI:9129107
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 699)
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCM127 row: c column: 20.
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Location/Qualifiers
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/clone="IMAGE:3343051"
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/tissue_type="retinoblastoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: eye; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."
BASE COUNT 153 a 202 c 194 g 149 t 1 others
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Query Match 97.8%; Score 536; DB 10; Length 699;
Best Local Similarity 99.6%; Pred. No. 1.1e-124;
Matches 547; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 CGCCGAGGTCGCTTGGACCCCTGATCTTACCCGTGGGACCCCTGCCGTCTGCCCTGCCGCG 60
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QY 61 AAGACCGGCTCCCGACCCCGCAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCC-GAGG 119
Db 111 AAGACCGGCTCCCGACCCCGCAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCCTGAGG 170
QY 120 CGGGGAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGCGCGCGGCTG 179
Db 171 CGGGGAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGCGCGCGGCTG 230
QY 180 CTGCTGTGGCGCGCTGCTTCAGTCTGTGCGGCCCGCTGTTGTCTGCCCGACCCCGGGCC 239
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QY 240 CGCAGGCCAGAATCAAAAGCAACAATGCCACCTTAGATCCCCCGGTCAATTTCTCTCAGG 299
Db 291 CGCAGGCCAGAATCAAAAGCAACAATGCCACCTTAGATCCCCCGGTCAATTTCTCTCAGG 350
QY 300 AACCCCAATGATAAATATGAACCATTTTGGAGGATGAGGAGAAAAAATGAAAGTGGTTA 359
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QY 480 TCTGTGTACACCGGAGTGTGTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTG 539
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QY 540 TTCATCCTG 548
Db 591 TTCATCCTG 599

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  mRNA sequence.
ACCESSION
  BG473471
VERSION
  BG473471.1 GI:13405746
KEYWORDS
  EST.
SOURCE
  human.
ORGANISM
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  1 (bases 1 to 739)
  NIH-MGC http://mgc.nci.nih.gov/.
  National Institutes of Health, Mammalian Gene Collection (MGC)
  Unpublished (1999)
  Contact: Robert Strausberg, Ph.D.
  Email: cgapbs-re@mail.nih.gov
  Tissue Procurement: ATCC
  cDNA Library Preparation: Ling Hong/Rubin Laboratory
  cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
  DNA Sequencing by: Incyte Genomics, Inc.
  Clone distribution: MGC clone distribution information can be
  found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
  Plate: LLCM1425 row: c column: 20
  High quality sequence stop: 718.
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      /lab_host="DH10B (phage-resistant)"
      /note="Organ: eye; Vector: pOTB7; Site_1: XhoI; Site_2:
      EcoRI; cDNA made by oligo-dT priming. Directionally
      cloned into EcoRI/XhoI sites using the following 5'
      adaptor: GGCACGAG(G). Library constructed by Ling Hong
      in the laboratory of Gerald M. Rubin (University of
      California, Berkeley) using ZAP-cDNA synthesis kit
      (Stratagene) and Superscript II RT (Life Technologies).
      Note: this is a NIH_MGC Library."
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  QY 76 ACCCGCAGAAGTCAGGAGAGGGTGAAGCGGAGCAGCCGAGGCGGGGCGAGCCTCCCGG 135
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Db 422 GCCTCCGGATATTGACCAGCTCCTGGTGACACTCTTTTGTCCCATCTGTGTACACCGGA 481
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QY 495 GTGTTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTGTGTTCATCCTG 548
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 482 GTG-TTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTGTGTTCATCCTG 534
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 4
BC016059
LOCUS
DEFINITION
  BC016059 496 bp mRNA linear HTC 24-OCT-2001
  Homo sapiens, Similar to coagulation factor II (thrombin) receptor,
  clone IMAGE:4849569, mRNA.
ACCESSION
  BC016059
VERSION
  BC016059.1 GI:16359189
KEYWORDS
  HTC.
SOURCE
  Homo sapiens.
ORGANISM
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
  1 (bases 1 to 496)
  Strausberg, R.
  Direct Submission
  Submitted (22-OCT-2001) National Institutes of Health, Mammalian
  Gene Collection (MGC), Cancer Genomics Office, National Cancer
  Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
  USA
  NIH-MGC Project URL: http://mgc.nci.nih.gov
  Contact: MGC help desk
  Email: cgapbs-r@mail.nih.gov
  Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
  cDNA Library Preparation: Rubin Laboratory
  cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
  DNA Sequencing by: Genome Sequence Centre,
  BC Cancer Agency, Vancouver, BC, Canada
  info@bcgsc.bc.ca
  Steven Jones, Jennifer Asano, Ian Bosdet, Yaron Butterfield,
  Susanna Chan, Readman Chiu, Chris Fjell, Erin Garland, Ran Guin,
  Letticia Hsiao, Martin Krzywinski, Reta Kutsche, Oliver Lee, Soo
  Sen Lee, Victor Ling, Carrie Mathewson, Candice McLeavy, Steven
  Ness, Pawan Pandoh, Anna-Liisa Prabhu, Parvaneh Saeedi, Jacqueline
  Schein, Duane Smailus, Michael Smith, Lorraine Spence, Jeff Stott,
  Michael Thorne, Miranada Tsai, Natasja van den Bosch, Jill Vardy,
  George Yang, Scott Zuyderduyn, Marco Marra.
  Clone distribution: MGC clone distribution information can be found
  through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
  Series: IRAL Plate: 34 Row: a Column: 7
  This clone was selected for full length sequencing because it
  passed the following selection criteria: matched mRNA gi: 6031164
  This clone has the following problem: incomplete processing.
  FEATURES
    location/Qualifiers
      1..496
        /organism="Homo sapiens"
        /db_xref="taxon:9606"
        /clone="IMAGE:4849569"
        /tissue_type="Blood, natural killer cell"
        /clone_lib="NIH_MGC_106"
        /lab_host="DH10B-R"
        /note="Vector: pOTB7"
BASE COUNT 130 a 144 c 146 g 76 t
ORIGIN
  Query Match 35.9%; Score 197; DB 11; Length 496;
  Best Local Similarity 100.0%; Pred. No. 3.3e-39;
  Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY	53	CTGCCGCGAAGACCGGCTCCCGACCCCGCAGAACTCAGGAGAGAGGGTGAACGGAGCAG	112
Db	1	CTGCCGCGAAGACCGGCTCCCGACCCCGCAGAACTCAGGAGAGAGGGTGAACGGAGCAG	60
QY	113	CCCGAGCGGGGCGAGCCTCCCGGAGCAGCGCGCGCAGAGCCCGGGACAATGGGGCCGCG	172
Db	61	CCCGAGCGGGGCGAGCCTCCCGGAGCAGCGCGCGCAGAGCCCGGGACAATGGGGCCGCG	120
QY	173	CGGCTGCTGCTGGTGGCGCGCTGCTTCAGTCTGTGCGGCCCGCTGTTGTCTGCCCGCAC	232
Db	121	CGGCTGCTGCTGGTGGCGCGCTGCTTCAGTCTGTGCGGCCCGCTGTTGTCTGCCCGCAC	180
QY	233	CCGGGCCCCGAGGCCAC	249
Db	181	CCGGGCCCCGAGGCCAC	197
RESULT 5			
LOCUS	BB662299	621 bp	linear
DEFINITION	BB662299	RIKEN full-length enriched, 16 days neonate heart Mus musculus cDNA clone D830039D11 5', mRNA sequence.	EST 26-OCT-2001
ACCESSION	BB662299		
VERSION	BB662299.1	GI:16496054	
KEYWORDS	EST.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
AUTHORS	1 (bases 1 to 621)		
	Arakawa,T., Carninci,P., Fukuda,S., Furuno,M., Hanagaki,T., Hara,A., Hiramoto,K., Hori,F., Ishii,Y., Ito,M., Kawai,J., Konno,H., Kouda,M., Koya,S., Matsuyama,T., Miyazaki,A., Nomura,K., Ohno,M., Okazaki,Y., Okido,T., Saito,R., Sakai,C., Sakai,K., Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T., Sogabe,Y., Suzuki,H., Tagami,M., Tagawa,A., Takahashi,F., Takeda,Y., Tanaka,T., Toya,T., Muramatsu,M. and Hayashizaki,Y.		
TITLE	RIKEN Mouse ESTs (Arakawa,T., et al. 2001)		
JOURNAL	Unpublished (2001)		
COMMENT	Contact: Yoshihide Hayashizaki Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute The Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9222 Fax: 81-45-503-9216 Email: genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/ Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000) wagi,K., Fujiwaka,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y. RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000) Konno,H., Fukunishi,Y., Shibata,K., Itoh,M., Carninci,P., Sugahara,Y. and Hayashizaki,Y. Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) Kondo,S., Shinagawa,A., Saito,T., Kiyosawa,H., Yamanaka,I., Aizawa,K., Fukuda,S., Hara,A., Itoh,M., Kawai,J., Shibata,K. and Hayashizaki,Y. Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences. Mamm. Genome. 12, 673-677 (2001) Please visit our web site (http://genome.gsc.riken.go.jp) for further details. e mouse tissues.		

Db	384	CTGACGCTCTTCATGCCCTCCGTGTACACGATTGTGTTTCATTGTGCAGCCTTCCCTCTGAAC	443
QY	522	ATCATGGCCATCGTTGTGTTTCATCCCTG	548
Db	444	GTCCTGGCCATCGCAGTGTTCGTCTTG	470
RESULT 8			
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LOCUS	BQ923464	949 bp	mRNA linear EST 20-AUG-2002
DEFINITION	AGENCOURT_8800954 NIH_MGC_130 Mus musculus cDNA clone IMAGE:6392393		5', mRNA sequence.
ACCESSION	BQ923464		
VERSION	BQ923464.1	GI:22338495	
KEYWORDS	EST.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
REFERENCE	1 (bases 1 to 949)		
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/.		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL	Unpublished (1999)		
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: Mark Maconochie, Ph.D. and Nancy L. Freeman, Ph.D. CDNA Library Preparation: ResGen, Invitrogen Corp CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM1382 row: c column: 18 High quality sequence stop: 674. Location/Qualifiers		
FEATURES	1..949		
source	/organism="Mus musculus" /db_xref="taxon:10090" /clone="IMAGE:6392393" /clone_lib="NIH_MGC_130" /lab_host="DH10B (phage-resistant)" /note="Organ: otocysts; Vector: pCMV-SPORT6.1.ccdB; Site_1: EcorV; Site_2: NotI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.95 kb. Constructed by ResGen, Invitrogen Corp. Note: this is a NIH_MGC Library."		
BASE COUNT	161 a 315 c 261 g 212 t		
ORIGIN			
Query Match	33.3%;	Score 182.4;	DB 14; Length 949;
Best Local Similarity	67.9%;	Pred. No. 1.9e-35;	
Matches	277; Conservative	0; Mismatches 116;	Indels 15; Gaps 1;
QY	156	GGGACAATGGGGCGCGGGCTGCTGCTGGTGGCGCGCTGCTTCAGTCTGTGCGGCCCG	215
Db	41		
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Db	101		
QY	276	GATCCCCGGTCATTCTTCTCAGGAACCCCAATGATAAATATGAACCAATT-----	325
Db	161		
QY	326	-----TTGGGAGGATGAGGAGAAAAATGAAAGTGGGTTAACTGAATACAGATTAGTCTCC	380
Db	221	GGGATGAGGAGGAGGAGAAAAATGAAAGCGTCTCTGCTGGAGGTAGGGCAGTCTAC	280
QY	381	ATCAATAAAGCAGTCTCTCTTCAAAAACAACCTTCCTGCATTTCATCTCAGAAAGATGCCTCC	440
Db	281	TTAAATATAAGCTCCCTCCTCACACAGCGCCCTCCTCCCTTCATCTCCGAGGACGCTCC	340

QY	441	GGATAATTGACCAGCTCCTGGCTGACACTCTTTTGTCCCATCTGTGTACACCGGAGTGT	500
Db	341		
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Db	401		
RESULT 9			
BI738768			
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DEFINITION	603362614F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:5369618		5', mRNA sequence.
ACCESSION	BI738768		
VERSION	BI738768.1	GI:15715781	
KEYWORDS	EST.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
REFERENCE	1 (bases 1 to 584)		
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/.		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL	Unpublished (1999)		
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: The Cepko Laboratory CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM11940 row: 1 column: 03 High quality sequence stop: 582. Location/Qualifiers		
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BASE COUNT	105 a 181 c 168 g 130 t		
ORIGIN			
Query Match	33.0%;	Score 180.8;	DB 13; Length 584;
Best Local Similarity	67.6%;	Pred. No. 4.2e-35;	
Matches	276; Conservative	0; Mismatches 117;	Indels 15; Gaps 1;
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Db	216	GGGATGAGGAGGAGGAGAAAAATGAAAGCGTCTCTGCTGGAGGTAGGGCAGTCTAC	275

Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh
M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)
wagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,
Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura
S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and
Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multicapillary sequencer. Genome Res.
10 (11), 1757-1771 (2000)
Konno, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara
Y. and Hayashizaki, Y.
Computer-based methods for the mouse full-length cDNA
encyclopedia: real-time sequence clustering for construction of a
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
Please visit our web site (<http://genome.gsc.riken.go.jp>) for
further details.

FEATURES
source

BASE COUNT ORIGIN	91 a	149 c	130 g	97 t	
Query Match	29.1%; Score 159.2; DB 10; Length 467;				
Best Local Similarity	64.1%; Pred. No. 1.1e-29;				
Matches 264; Conservative	0; Mismatches 133; Indels 15; Gaps 1;				
QY	117	AGCGGGGCAGCCTCCGGAGCAGCGCCGCGCAGAGCCCCGGGACAATGGGGCGCGGGCGG	176		
Db	46	AGTAGGCGACGGCGGCGCGGGCCGCGCGGCGCAGCCTTGGGACAATGGGGCCCCGGCGC	105		
QY	177	CTGCTGCTGGTGGCGCGCCTGCTTCAGTCTGTGCGGCGCGCGCTGTTGTCTGCCCGCACCCCGG	236		
Db	106	TTGCTGATCGTCGCCCTCGGCCCTCAGCCTGTGCGGTCCCTTGCTGTCTCCCGCGCTCCT	165		
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Db	166	ATGAGCCAGCCAGAAATCAGAGAGGACAGATGCTACGGTGAACCCCGCTCATTTCTTA	225		
QY	297	AGGAACCCCAATGATAAATATGAACCATTT-----TTGGGAGGATGAGGAG	341		
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QY	342	AAAAATGAAAGTGGGTTAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCTCTT	401		
Db	286	AAAAATGAAAGCGTCTGCTGGAGGGTAGGCGAGTCTACTTAAATATAAGCCCTCCCTCCT	345		

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2002, 04:05:26 ; Search time 3119 Seconds
(without alignments)
5113.286 Million cell updates/sec

Title: US-09-744-679-7
Perfect score: 548
Sequence: 1 cgccgagggtcgcttgacc.....ccatcggtgtgttcctcctg 548

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues
Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:

- 1: gb_ba:*
- 2: gb_htg:*
- 3: gb_in:*
- 4: gb_om:*
- 5: gb_ov:*
- 6: gb_pat:*
- 7: gb_ph:*
- 8: gb_pl:*
- 9: gb_pr:*
- 10: gb_ro:*
- 11: gb_sts:*
- 12: gb_sy:*
- 13: gb_un:*
- 14: gb_vi:*
- 15: em_ba:*
- 16: em_fun:*
- 17: em_hum:*
- 18: em_in:*
- 19: em_mu:*
- 20: em_om:*
- 21: em_or:*
- 22: em_ov:*
- 23: em_pat:*
- 24: em_ph:*
- 25: em_pl:*
- 26: em_ro:*
- 27: em_sts:*
- 28: em_un:*
- 29: em_vi:*
- 30: em_htg_hum:*
- 31: em_htg_inv:*
- 32: em_htg_other:*
- 33: em_htg_mus:*
- 34: em_htg_pln:*
- 35: em_htg_rod:*
- 36: em_htg_mam:*
- 37: em_htg_vrt:*
- 38: em_sy:*
- 39: em_htgo_hum:*
- 40: em_htgo_mus:*
- 41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	548	100.0	3472	9 HUMTHRR	M62424 Human throm
2	548	100.0	3479	9 BC002464	BC002464 Homo sapi
3	548	100.0	3480	6 AR025392	AR025392 Sequence
4	548	100.0	3480	6 AR027730	AR027730 Sequence
5	548	100.0	3480	6 AR065265	AR065265 Sequence
6	548	100.0	3480	6 AR137610	AR137610 Sequence
7	548	100.0	3480	6 I74660	I74660 Sequence 21
8	441.6	80.6	3764	9 AF028727	AF028727 Papio ham
9	306.2	55.9	70679	2 AC026151	AC026151 Homo sapi
10	302	55.1	24771	9 AF391809	AF391809 Homo sapi
11	302	55.1	110965	2 AC020927	AC020927 Homo sapi
12	302	55.1	143335	9 AC025188	AC025188 Homo sapi
13	282.4	51.5	1764	6 I49726	I49726 Sequence 12
14	249	45.4	8881	2 AC008933	AC008933 Homo sapi
15	246	44.9	2895	9 HSU63331	U63331 Human throm
16	229	41.8	2878	9 AF054633	AF054633 Homo sapi
17	188.2	34.3	2855	10 CLTHRRRC	X61958 C.longicaud
18	184.2	33.6	1312	10 MUSTHRRCT	L03529 Mus musculu
19	183	33.4	3313	10 BC031516	BC031516 Mus muscu
20	171.2	31.2	3418	10 RATTRGPC	M81642 Rat G-prote
21	161	29.4	5457	9 HSU36755	U36755 Human throm
22	148.2	27.0	6436	6 AX345583	AX345583 Sequence
23	146.6	26.8	6436	6 AX345582	AX345582 Sequence
24	137.6	25.1	151166	2 AC130634	AC130634 Rattus no
25	133	24.3	5620	10 MMTHRECO2	U36757 Mus musculu
26	133	24.3	199227	2 AC110876	AC110876 Mus muscu
27	130.4	23.8	1164	10 CLU34047	U34047 Cricetulus
28	53	9.7	275	10 MMCF2R01	U55075 Mus musculu
29	53	9.7	4605	10 MMTHRECO1	U36756 Mus musculu
30	53	9.7	235097	2 AC110877	AC110877 Mus muscu
31	52.6	9.6	1680	5 XLU09632	U09632 Xenopus lae
32	48.8	8.9	47981	1 AF263245	AF263245 Micromono
33	48.8	8.9	47981	6 AX112026	AX112026 Sequence
34	47.2	8.6	195670	2 AC115449	AC115449 Rattus no
35	47	8.6	2464	10 AY034062	AY034062 Mus muscu
36	47	8.6	69747	2 AC124340	AC124340 Mus muscu
37	47	8.6	193947	10 AL606985	AL606985 Mouse DNA
38	46.4	8.5	195554	2 AL714009	AL714009 Mus muscu
39	46.4	8.5	86237	2 AC111966	AC111966 Rattus no
40	46	8.4	91856	2 AC123018	AC123018 Rattus no
41	46	8.4	118155	2 AC130148	AC130148 Rattus no
42	45.2	8.2	157861	2 AC126902	AC126902 Rattus no
43	45	8.2	134725	2 AC114389	AC114389 Rattus no
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45	44.8	8.2	159822	2 AC118304	AC118304 Rattus no

ALIGNMENTS

RESULT 1
HUMTHRR

LOCUS Human thrombin receptor mRNA, complete cds.
DEFINITION Human thrombin receptor mRNA, complete cds.
ACCESSION M62424
VERSION M62424.1 GI:339676
KEYWORDS thrombin receptor.
SOURCE Human DNA.

ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 3472)
Vu,T.K., Hung,D.T., Wheaton,V.I. and Coughlin,S.R.
Molecular cloning of a functional thrombin receptor reveals a novel
proteolytic mechanism of receptor activation

JOURNAL	Cell 64 (6), 1057-1068 (1991)	ACCESSION	BC002464
MEDLINE	91168254	VERSION	BC002464.1
PUBMED	1672265	KEYWORDS	GI:12803296
FEATURES		SOURCE	MGC.
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	/db_xref="taxon:9606"		1 (bases 1 to 3479)
	225. .1502	REFERENCE	Strausberg,R.
	/codon_start=1	AUTHORS	Direct Submission
	/product="thrombin receptor"	TITLE	Submitted (05-FEB-2001) National Institutes of Health, Mammalian
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	/translation="MGPRLLVAAACFSLCGPLLSARTRARRPESKATNATLDPRSFL		USA
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	YFSGSDWQFGSELCRFVTAAFYCNMYASILMTVISIDRFLAVYPMQSLSWRTLGR		Email: cgapbs-r@mail.nih.gov
	ASFTCLAIWALAIAGVVPVLVKEQTIOVPLNITTCCHDVLNETLLEGYAYYFSAFSA		Tissue Procurement: ATCC
	VFFVFLIISTVCYVSIIRCLSSAVANRKSRAFLSAAVFCIFICFGPTNVLLI		cDNA Library Preparation: Rubin Laboratory
	AHYSFLSHTSTTEAAYFAYLLCVCVSSISCCIDPLIYYASSECQRYVYSILCKESS		cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
	DPSSYSSGQLMASKMDTCSNLNNSIYKKLLT"		DNA Sequencing by: National Institutes of Health Intramural
• BASE COUNT	933 a 817 c 785 g 937 t		Sequencing Center (NISC),
ORIGIN			Gaithersburg, Maryland;
	Query Match 100.0%; Score 548; DB 9; Length 3472;		Web site: http://www.nisc.nih.gov/
	Best Local Similarity 100.0%; Pred. No. 3.3e-112;		Contact: nisc_mgc@nhgri.nih.gov
	Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		Shevchenko,Y., Wetherby,K.D., Beckstrom-Sternberg,S.M.,
QY	1 CGCCGAGGTCGCTTGGACCCCTGATCTTACCCGCGGACCCCTGCGCTCGCTGCCGCG 60		Benjamin,B., Blakesley,R.W., Bouffard,G.G., Brinkley,C., Brooks,S.,
Db			Dietrich,N.L., Guan,X., Gupta,J., Ho,S.-L., Karlins,E., Legaspi,R.,
	64 CGCCGAGGTCGCTTGGACCCCTGATCTTACCCGCGGACCCCTGCGCTCGCTGCCGCG 123		Lim,M., Maduro,Q.L., Masiello,C., Mastrian,S.D., McCloskey,J.C.,
QY	61 AAGACCGGTCCTCCCGACCGCAGAGTCAGGAGAGGGGTGAAGCGGAGCAGCCCGAGGC 120		McDowell,J., Pearson,R., Snyder,B., Stantripop,S., Thomas,P.J.,
Db			Tiongson,E.E., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,
	124 AAGACCGGTCCTCCCGACCGCAGAGTCAGGAGAGGGGTGAAGCGGAGCAGCCCGAGGC 183		Zhang,L.-H. and Green,E.D.
QY	121 GGGGACCCCTCCCGGAGCAGCGCGCGCAGAGCCCGGACAAATGGGCGCGCGGCTGC 180		Clone distribution: MGC clone distribution information can be found
Db			through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
	184 GGGGACCCCTCCCGGAGCAGCGCGCGCAGAGCCCGGACAAATGGGCGCGGCTGC 243		Series: IRAL Plate: 5 Row: P Column: 3
QY	181 TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCGCGCTGTGTCTGCCGACCCGCGGCC 240		This clone was selected for full length sequencing because it
Db			passed the following selection criteria: matched mRNA gi: 6031164.
	244 TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCGCGCTGTGTCTGCCGACCCGCGGCC 303	FEATURES	Location/Qualifiers
QY	241 GCAGGCCAGATCAAAAGCAACAATGCCACCTTAGATCCCGGTCATTCTCTCTCAGGA 300	source	1. .3479
Db			/organism="Homo sapiens"
	304 GCAGGCCAGATCAAAAGCAACAATGCCACCTTAGATCCCGGTCATTCTCTCTCAGGA 363		/db_xref="LocusID:2149"
QY	301 ACCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAATGAAAGTGGTTAA 360		/db_xref="taxon:9606"
Db			/clone="MGC:1197 IMAGE:3343051"
	364 ACCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAATGAAAGTGGTTAA 423		/tissue_type="Eye, retinoblastoma"
QY	361 CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTCAAAAACAACCTTCCTGCAT 420		/clone_lib="NIH_MGC_16"
Db			/lab_host="DH10B-R"
	424 CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTCAAAAACAACCTTCCTGCAT 483		/note="Vector: pOTB7"
QY	421 TCATCTCAGAAGATGCCTCCGGATATTGACCAAGTCCTGGGTGACACTCTTTGTCCCAT 480		190. .1467
Db			/codon_start=1
	484 TCATCTCAGAAGATGCCTCCGGATATTGACCAAGTCCTGGGTGACACTCTTTGTCCCAT 543		/product="coagulation factor II (thrombin) receptor"
QY	481 CTGTGTACACCGGAGTGTGTGTAGTCAGCTCCCACTAAACATCATGGCCATCGTTGTGT 540		/protein_id="AAH02464.1"
Db			/db_xref="GI:12803297"
	544 CTGTGTACACCGGAGTGTGTGTAGTCAGCTCCCACTAAACATCATGGCCATCGTTGTGT 603		/translation="MGPRLLVAAACFSLCGPLLSARTRARRPESKATNATLDPRSFL
QY	541 TCATCCTG 548		LRNPNDKYEPFWEDEKNEESGLTEYRLVSINKSPLOKQLPAFISEDASGYLTSSWLT
Db			LFVPSVYTGVEFVSLPLNMAIVVFIKMKVKPAVYMLHLATADVLVSVLPFKIS
	604 TCATCCTG 611		YFSGSDWQFGSELCRFVTAAFYCNMYASILMTVISIDRFLAVYPMQSLSWRTLGR
RESULT 2			ASFTCLAIWALAIAGVVPVLVKEQTIOVPLNITTCCHDVLNETLLEGYAYYFSAFSA
BC002464	3479 bp mRNA linear PRI 12-JUL-2001		VFFVFLIISTVCYVSIIRCLSSAVANRKSRAFLSAAVFCIFICFGPTNVLLI
LOCUS			AHYSFLSHTSTTEAAYFAYLLCVCVSSISCCIDPLIYYASSECQRYVYSILCKESS
DEFINITION	Homo sapiens, coagulation factor II (thrombin) receptor, clone		DPSSYSSGQLMASKMDTCSNLNNSIYKKLLT"
	MGC:1197 IMAGE:3343051, mRNA, complete cds.		

Query Match	100.0%; Score 548; DB 9; Length 3479;	BASE COUNT	969 a 792 c 778 g 940 t
Best Local Similarity	100.0%; Pred. No. 3.3e-112;	ORIGIN	
Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			Query Match
QY	1 CGCCGAGGTCGCTTGGACCCCTGATCTTACCCGCGGACCCCTGCGCTCGCTGCCGCG 60		Best Local Similarity
Db			Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
	29 CGCCGAGGTCGCTTGGACCCCTGATCTTACCCGCGGACCCCTGCGCTCGCTGCCGCG 88		
QY	61 AAGACCGGCTCCCGACCGCAGAGTCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120		

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Db      89  |||||AAGACCGGCTCCCCGACCCGAGAAAGTCAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 148
QY     121  GGGGAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCGCGCGGCTGC 180
Db     149  GGGGAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCGCGCGGCTGC 208
QY     181  TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGGCCCGCTGTTGTCTGCCCGACCCCGGGCCC 240
Db     209  TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGGCCCGCTGTTGTCTGCCCGACCCCGGGCCC 268
QY     241  GCAGGCCAGAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCAATTTCTCTCAGGA 300
Db     269  GCAGGCCAGAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCAATTTCTCTCAGGA 328
QY     301  ACCCCAATGATAAATGAACCAATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA 360
Db     329  ACCCCAATGATAAATGAACCAATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA 388
QY     361  CTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAACAACCTCCTGCAT 420
Db     389  CTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAACAACCTCCTGCAT 448
QY     421  TCATCTCAGAAGATGCTCCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT 480
Db     449  TCATCTCAGAAGATGCTCCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT 508
QY     481  CTGTGTACACCGGAGTGTGTAGTCAGCCTCCCACCTAAACATCATGGCCATCGTTGTGT 540
Db     509  CTGTGTACACCGGAGTGTGTAGTCAGCCTCCCACCTAAACATCATGGCCATCGTTGTGT 568
QY     541  TCATCCTG 548
Db     569  TCATCCTG 576

RESULT 3
AR025392
LOCUS      AR025392          3480 bp      DNA      linear      PAT 05-DEC-1998
DEFINITION Sequence 219 from patent US 5798248.
ACCESSION  AR025392
VERSION     AR025392.1  GI:3978020
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 3480)
AUTHORS     Coughlin,S.R. and Scarborough,R.M.
TITLE       Recombinant mutant thrombin receptor and related pharmaceuticals
JOURNAL     Patent: US 5798248-A 219 25-AUG-1998;
FEATURES    Location/Qualifiers
             source
             1..3480
             /organism="unknown"
BASE COUNT  941 a  817 c  785 g  937 t
ORIGIN

Query Match          100.0%;  Score 548;  DB 6;  Length 3480;
Best Local Similarity 100.0%;  Pred. No. 3.3e-112;
Matches 548;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

QY      1  CGCCGAGGGTCGCTTGGACCTGATCTTACCCGTGGGACCCCTGCGCTCTGCCTGCCGCG 60
Db      64  CGCCGAGGGTCGCTTGGACCTGATCTTACCCGTGGGACCCCTGCGCTCTGCCTGCCGCG 123
QY      61  AAGACCGGCTCCCCGACCCGAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120
Db     124  AAGACCGGCTCCCCGACCCGAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC 183
QY     121  GGGCAGCCTCCCGACCCGAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120
Db     124  AAGACCGGCTCCCCGACCCGAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC 183
QY     121  GGGCAGCCTCCCGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCGCGGCGTGC 180
Db     184  GGGCAGCCTCCCGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCGCGGCGTGC 243
QY     181  TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGGCCCGCTGTTGTCTGCCCGACCCCGGGCCC 240
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Db     244  |||||TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGCCGCTGTTGTCTGCCCGACCCCGGGCCC 303
QY     241  GCAGGCCAGAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCAATTTCTTCTCAGGA 300
Db     304  GCAGGCCAGAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCAATTTCTTCTCAGGA 363
QY     301  ACCCCAATGATAAATATGAACCAATTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA 360
Db     364  ACCCCAATGATAAATATGAACCAATTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA 423
QY     361  CTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAACAACCTCCTGCAT 420
Db     424  CTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAACAACCTCCTGCAT 483
QY     421  TCATCTCAGAAAGATGCCCTCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT 480
Db     484  TCATCTCAGAAAGATGCCCTCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT 543
QY     481  CTGTGTACACCGGAGTGTGTAGTCAGCCTCCCACCTAAACATCATGGCCATCGTTGTGT 540
Db     544  CTGTGTACACCGGAGTGTGTAGTCAGCCTCCCACCTAAACATCATGGCCATCGTTGTGT 603
QY     541  TCATCCTG 548
Db     604  TCATCCTG 611

RESULT 4
AR027730
LOCUS      AR027730          3480 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 219 from patent US 5856448.
ACCESSION  AR027730
VERSION     AR027730.1  GI:5938550
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 3480)
AUTHORS     Coughlin,S.R.
TITLE       Antibodies specifically reactive with thrombin receptor and its components
JOURNAL     Patent: US 5856448-A 219 05-JAN-1999;
FEATURES    Location/Qualifiers
             source
             1..3480
             /organism="unknown"
BASE COUNT  941 a  817 c  785 g  937 t
ORIGIN

Query Match          100.0%;  Score 548;  DB 6;  Length 3480;
Best Local Similarity 100.0%;  Pred. No. 3.3e-112;
Matches 548;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

QY      1  CGCCGAGGGTCGCTTGGACCTGATCTTACCCGTGGGACCCCTGCGCTCTGCCTGCCGCG 60
Db      64  CGCCGAGGGTCGCTTGGACCTGATCTTACCCGTGGGACCCCTGCGCTCTGCCTGCCGCG 123
QY      61  AAGACCGGCTCCCCGACCCGAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120
Db     124  AAGACCGGCTCCCCGACCCGAGAAAGTCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC 183
QY     121  GGGCAGCCTCCCGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCGCGGCGTGC 180
Db     184  GGGCAGCCTCCCGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCGCGGCGTGC 243
QY     181  TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGGCCCGCTGTTGTCTGCCCGACCCCGGGCCC 240
Db     244  TGCTGGTGGCCGCTGCTTCAGTCTGTGCGGGCCCGCTGTTGTCTGCCCGACCCCGGGCCC 303
QY     241  GCAGGCCAGAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCAATTTCTTCTCAGGA 300
Db     304  GCAGGCCAGAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCAATTTCTTCTCAGGA 363
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QY	301	ACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA	360
Db	364	ACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA	423
QY	361	CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAAACAACCTCCTGCAAT	420
Db	424	CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAAACAACCTCCTGCAAT	483
QY	421	TCATCTCAGAAAGATGCCCTCCGGATATTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT	480
Db	484	TCATCTCAGAAAGATGCCCTCCGGATATTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT	543
QY	481	CTGTGTACACCGAGTGTTTGTAGTCAGCCTCCCACATAACATCATGGCCATCGTTGTGT	540
Db	544	CTGTGTACACCGAGTGTTTGTAGTCAGCCTCCCACATAACATCATGGCCATCGTTGTGT	603
QY	541	TCATCCTG 548	
Db	604	TCATCCTG 611	
RESULT 5			
AR065265			
LOCUS	AR065265	3480 bp	DNA linear PAT 29-SEP-1999
DEFINITION	Sequence 219 from patent US 5849507.		
ACCESSION	AR065265		
VERSION	AR065265.1	GI:5995481	
KEYWORDS			
SOURCE	Unknown.		
ORGANISM	Unknown.		
REFERENCE	1 (bases 1 to 3480)		
AUTHORS	Coughlin,S.R.		
TITLE	Methods to diagnose thrombosis by measuring activation peptide		
JOURNAL	Patent: US 5849507-A 219 15-DEC-1998;		
FEATURES	Location/Qualifiers		
source	1..3480		
BASE COUNT	941 a	817 c	785 g 937 t
ORIGIN			
Query Match	100.0%;	Score 548;	DB 6; Length 3480;
Best Local Similarity	100.0%;	Pred. No. 3.3e-112;	
Matches	548; Conservative	0; Mismatches	0; Indels 0; Gaps 0;
QY	1	CGCCGAGGGTCGTTGGACCTGATCTTACCGTGGGCACCCCTGCCTCTGCCTGCCGCG	60
Db	64	CGCCGAGGGTCGTTGGACCTGATCTTACCGTGGGCACCCCTGCCTCTGCCTGCCGCG	123
QY	61	AAGACCGGCTCCCGACCGCAGAGTCAGGAGAGGGTGAAGCGAGCAGCCCGAGGC	120
Db	124	AAGACCGGCTCCCGACCGCAGAAATCAGGAGAGGGTGAAGCGAGCAGCCCGAGGC	183
QY	121	GGGGCAGCCTCCGGAGCAGCGCCGCGAGAGCCCGGGACAATGGGGCCCGCGGCTGC	180
Db	184	GGGGCAGCCTCCCGAGCAGCGCGCGCAGAGCCCGGGACAATGGGGCCCGCGGCTGC	243
QY	181	TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCCCGCTGTGTCTGCCCGCACCCGGCCC	240
Db	244	TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCCCGCTGTGTCTGCCCGCACCCGGCCC	303
QY	241	GCAGGCCAGAAATCAAAAGCAACAATGCCACCTTAGATCCCCGGTCAATTTCTTCAGGA	300
Db	304	GCAGGCCAGAAATCAAAAGCAACAATGCCACCTTAGATCCCCGGTCAATTTCTTCAGGA	363
QY	301	ACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA	360
Db	364	ACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA	423
QY	361	CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAAACAACCTCCTGCAAT	420
Db	424	CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAAACAACCTCCTGCAAT	483
QY	481	CTGTGTACACCGAGTGTTTGTAGTCAGCCTCCCACATAACATCATGGCCATCGTTGTGT	540
Db	424	CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAAACAACCTCCTGCAAT	483

QY	421	TCATCTCAGAAAGATGCCCTCCGGATATTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT	480
Db	484	TCATCTCAGAAAGATGCCCTCCGGATATTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT	543
QY	481	CTGTGTACACCGAGTGTTTGTAGTCAGCCTCCCACATAACATCATGGCCATCGTTGTGT	540
Db	544	CTGTGTACACCGAGTGTTTGTAGTCAGCCTCCCACATAACATCATGGCCATCGTTGTGT	603
QY	541	TCATCCTG 548	
Db	604	TCATCCTG 611	
RESULT 6			
AR137610			
LOCUS	AR137610	3480 bp	DNA linear PAT 16-JUN-2001
DEFINITION	Sequence 219 from patent US 6197541.		
ACCESSION	AR137610		
VERSION	AR137610.1	GI:14479119	
KEYWORDS			
SOURCE	Unknown.		
ORGANISM	Unknown.		
REFERENCE	1 (bases 1 to 3480)		
AUTHORS	Coughlin,S.R.		
TITLE	Recombinant thrombin receptors and assays using them		
JOURNAL	Patent: US 6197541-A 219 06-MAR-2001;		
FEATURES	Location/Qualifiers		
source	1..3480		
BASE COUNT	941 a	817 c	785 g 937 t
ORIGIN			
Query Match	100.0%;	Score 548;	DB 6; Length 3480;
Best Local Similarity	100.0%;	Pred. No. 3.3e-112;	
Matches	548; Conservative	0; Mismatches	0; Indels 0; Gaps 0;
QY	1	CGCCGAGGGTCGTTGGACCTGATCTTACCCGTGGGCACCCCTGCCTCTGCCTGCCGCG	60
Db	64	CGCCGAGGGTCGTTGGACCTGATCTTACCCGTGGGCACCCCTGCCTCTGCCTGCCGCG	123
QY	61	AAGACCGGCTCCCGACCGCAGAAATCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC	120
Db	124	AAGACCGGCTCCCGACCGCAGAAATCAGGAGAGGGTGAAGCGGAGCAGCCCGAGGC	183
QY	121	GGGGCAGCCTCCGGAGCAGCGCCGCGAGAGCCCGGGACAATGGGGCCCGCGGCTGC	180
Db	184	GGGGCAGCCTCCCGAGCAGCGCGCGCAGAGCCCGGGACAATGGGGCCCGCGGCTGC	243
QY	181	TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCCCGCTGTGTCTGCCCGCACCCGGCCC	240
Db	244	TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCCCGCTGTGTCTGCCCGCACCCGGCCC	303
QY	241	GCAGGCCAGAAATCAAAAGCAACAATGCCACCTTAGATCCCCGGTCAATTTCTTCAGGA	300
Db	304	GCAGGCCAGAAATCAAAAGCAACAATGCCACCTTAGATCCCCGGTCAATTTCTTCAGGA	363
QY	301	ACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA	360
Db	364	ACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTAA	423
QY	361	CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAAACAACCTCCTGCAAT	420
Db	424	CTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAAACAACCTCCTGCAAT	483
QY	421	TCATCTCAGAAAGATGCCCTCCGGATATTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT	480
Db	484	TCATCTCAGAAAGATGCCCTCCGGATATTGACCAGCTCCTGGCTGACACTCTTTGTCCCAT	543
QY	481	CTGTGTACACCGAGTGTTTGTAGTCAGCCTCCCACATAACATCATGGCCATCGTTGTGT	540
Db	544	CTGTGTACACCGAGTGTTTGTAGTCAGCCTCCCACATAACATCATGGCCATCGTTGTGT	603

*	30272	30371:	gap of	100 bp
*	30372	31143:	contig of 772 bp	in length
*	31144	31243:	gap of	100 bp
*	31244	32053:	contig of 810 bp	in length
*	32054	32153:	gap of	100 bp
*	32154	32962:	contig of 809 bp	in length
*	32963	33062:	gap of	100 bp
*	33063	33883:	contig of 821 bp	in length
*	33884	33983:	gap of	100 bp
*	33984	34807:	contig of 824 bp	in length
*	34808	34907:	gap of	100 bp
*	34908	35712:	contig of 805 bp	in length
*	35713	35812:	gap of	100 bp
*	35813	36643:	contig of 831 bp	in length
*	36644	36743:	gap of	100 bp
*	36744	37572:	contig of 829 bp	in length
*	37573	37672:	gap of	100 bp
*	37673	38499:	contig of 827 bp	in length
*	38500	38599:	gap of	100 bp
*	38600	39425:	contig of 826 bp	in length
*	39426	39525:	gap of	100 bp
*	39526	40305:	contig of 780 bp	in length
*	40306	40405:	gap of	100 bp
*	40406	41233:	contig of 828 bp	in length
*	41234	41333:	gap of	100 bp
*	41334	42152:	contig of 819 bp	in length
*	42153	42252:	gap of	100 bp
*	42253	43091:	contig of 839 bp	in length
*	43092	43191:	gap of	100 bp
*	43192	44035:	contig of 844 bp	in length
*	44036	44135:	gap of	100 bp
*	44136	44973:	contig of 838 bp	in length
*	44974	45073:	gap of	100 bp
*	45074	45888:	contig of 815 bp	in length
*	45889	45988:	gap of	100 bp
*	45989	46837:	contig of 849 bp	in length
*	46838	46937:	gap of	100 bp
*	46938	47765:	contig of 828 bp	in length
*	47766	47865:	gap of	100 bp
*	47866	48665:	contig of 800 bp	in length
*	48666	48765:	gap of	100 bp
*	48766	49576:	contig of 811 bp	in length
*	49577	49676:	gap of	100 bp
*	49677	50500:	contig of 824 bp	in length
*	50501	50600:	gap of	100 bp
*	50601	51437:	contig of 837 bp	in length
*	51438	51537:	gap of	100 bp
*	51538	52369:	contig of 832 bp	in length
*	52370	52469:	gap of	100 bp
*	52470	53296:	contig of 827 bp	in length
*	53297	53396:	gap of	100 bp
*	53397	54202:	contig of 806 bp	in length
*	54203	54302:	gap of	100 bp
*	54303	55128:	contig of 826 bp	in length
*	55129	55228:	gap of	100 bp
*	55229	56078:	contig of 850 bp	in length
*	56079	56178:	gap of	100 bp
*	56179	57000:	contig of 822 bp	in length
*	57001	57100:	gap of	100 bp
*	57101	57897:	contig of 797 bp	in length
*	57898	57997:	gap of	100 bp
*	57998	58820:	contig of 823 bp	in length
*	58821	58920:	gap of	100 bp
*	58921	59718:	contig of 798 bp	in length
*	59719	59818:	gap of	100 bp
*	59819	60609:	contig of 791 bp	in length
*	60610	60709:	gap of	100 bp
*	60710	61529:	contig of 820 bp	in length
*	61530	61629:	gap of	100 bp
*	61630	62460:	contig of 831 bp	in length
*	62461	62560:	gap of	100 bp
*	62561	63354:	contig of 794 bp	in length
*	63355	63454:	gap of	100 bp

	* 63455	64251:	contig of 797 bp in length	
Query Match	55.9%;	Score 306.2;	DB 2;	Length 70679;
Best Local Similarity	69.6%;	Pred. No. 3.9e-58;		
Matches 332;	Conservative 0;	Mismatches 145;	Indels 0;	Gaps 0;
QY 72	CCCGACCCGAGAGTCAAGTCAGGAGAGAGGGTGAAAGCGGAGCAGGCCGAGCGGGGCAGCCCTC 131			
Db 51413	CCAGACAGATAAGAGTAGTGGAGGGNNN 51472			
QY 132	CCGGAGCAGCGCCGCGCAGAGCCCAGGACAATGGGGCCGCGCGGTGCTGCTGGTGGCC 191			
Db 51473	NNN 51532			
QY 192	GCCTGCTTCAGTCTGTGGGCCCCGCTGTGTGTCGCCGAGCACCCGGCCCGCAGGCCAGAA 251			
Db 51533	NNNNNGCACACTTGTGCTGACCTGCAGGTTTCTCTAGNAGNATCCCCCCTTCAGAA 51592			
QY 252	TCAAAGAACAATGCCACCTTAGATCCCGGTCAATTCTCTCAGGAACCCCAATGAT 311			
Db 51593	TCAAAGAACAATGCCACCTTAGATCCCGGTCAATTCTCTCAGGAACCCCAATGAT 51652			
QY 312	AAATATGAACCATTTTGGGAGGATGAGGAGAAAAAATGAAAGTGGTTAACTGAATACAGA 371			
Db 51653	AAATATGAACCATTTTGGGAGGATGAGGAGAAAAAATGAAAGTGGTTAACTGAATACAGA 51712			
QY 372	TTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAACAACCTCCTGCATTCACTCATCAGAA 431			
Db 51713	TTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAACAACCTCCTGCATTCACTCATCAGAA 51772			
QY 432	GATGCTCCGGATATTTGACCAGCTCCTGGCTGACACTTTTGTCCCATTGTGTACACC 491			
Db 51773	GATGCTCCGGATATTTGACCAGCTCCTGGCTGACACTTTTGTCCCATTGTGTACACC 51832			
QY 492	GGAGTGTGTAGTCAGCTCCCACTAAACATCATGGCCATCGTTGTGTTCATCCTG 548			
Db 51833	GGAGTGTGTAGTCAGCTCCCACTAAACATCATGGCCATCGTTGTGTTCATCCTG 51889			
RESULT 10				
AF391809				
LOCUS	AF391809	24771 bp	DNA linear	PRI 20-JUL-2001
DEFINITION	Homo sapiens coagulation factor II (thrombin) receptor (F2R) gene, complete cds.			
ACCESSION	AF391809			
VERSION	AF391809.2	GI:14971463		
KEYWORDS	.			
SOURCE	Homo sapiens.			
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 24771) Rieder,M.J., Carrington,D.P., Chung,M.-W., Lee,K.L., Poel,C.L., Yi,Q. and Nickerson,D.A. Direct Submission Submitted (15-JUN-2001) Molecular Biotechnology, University of Washington, 1705 NE Pacific, Seattle, WA 98195, USA 2 (bases 1 to 24771) Rieder,M.J. and Nickerson,D.A. Direct Submission Submitted (20-JUL-2001) Molecular Biotechnology, University of Washington, 1705 NE Pacific, Seattle, WA 98195, USA Sequence update by submitter On Jul 20, 2001 this sequence version replaced gi:14583134. To cite this work please use: SeattleSNPs. NHLBI Program for Genomic Applications, UW-FHCRC, Seattle, WA (URL: http://pga.mbt.washington.edu). Location/Qualifiers 1 .24771 /organism="Homo sapiens" /db_xref="taxon:9606" 55..211 /rpt_family="MER104"			
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TITLE				
JOURNAL				
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REMARK				
COMMENT				
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Best Local Similarity 100.0%; Pred. No. 3.3e-57;
Matches 302; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 18153 CAGAATCAAAAGCAACAATGCCACCTTAGATCCCGGTCATTTCTCTCAGGAACCCCA 18212

QY 307 ATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGTTAACTGAAT 366
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QY 427 CAGAAGATGCCTCCGGATATTGACCAGCTCCTGGGTGACACTCTTTGTCCCATCTGTGT 486
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QY 487 ACACCGGAGTGTGTAGTCAGCCCTCCCACTAAACATCATGCGCATCGTTGTGTTTCATCC 546
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QY 547 TG 548
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Db 18453 TG 18454

RESULT 11
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DEFINITION Homo sapiens chromosome 5 clone CTD-2153E7, WORKING DRAFT SEQUENCE,
4 ordered pieces.
ACCESSION AC020927
VERSION AC020927.4 GI:7711631
KEYWORDS HTG; HTGS_PHASE2; HTGS_DRAFT; HTGS_ACTIVEFIN.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 110965)
AUTHORS DOE Joint Genome Institute.
TITLE Sequencing of Human Chromosome 5
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 110965)
AUTHORS DOE Joint Genome Institute.
TITLE Direct Submission
JOURNAL Submitted (12-JAN-2000) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
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COMMENT

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On May 6, 2000 this sequence version replaced gi:7417650.
-----Genome Center
Center: Joint Genome Institute
Center Code: JGI
Web site: http://www.jgi.doe.gov
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Project Information
Center Project Name: 686404
Center clone name: CITB-H1_2153E7
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Summary Statistics
Consensus quality: 106980 bases at least Q40
Consensus quality: 109994 bases at least Q30
Consensus quality: 110455 bases at least Q20
Estimated insert size: 110000; pulse field gel estimation
Quality coverage: 7.03 in Q20 bases; sum-of-contigs estimation
Quality coverage: 6.98 in Q20 bases; sum-of-contigs estimation.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submittor.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
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* 1 8728: contig of 8728 bp in length
* 8729 8828: gap of unknown length
* 8829 11329: contig of 2501 bp in length
* 11330 11429: gap of unknown length
* 11430 40589: contig of 29160 bp in length
* 40590 40689: gap of unknown length
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FEATURES
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Best Local Similarity 100.0%; Pred. No. 3.4e-57;
Matches 302; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 547 TG 548
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Db 45195 TG 45196
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DB 87900 GCAGGCCAG 87908

RESULT 15

HSU63331

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

PUBMED

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

gene

CDS

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 246; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2650 CGCCGAGGGTCGCTGGACCCCTGATCTTACCCGTGGGCACCCCTGCGCTCTGCCTGCCGCG 2709

QY 61 AAGACCGGCTCCCGAGCAGCGCCGCGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120

Db 2710 AAGACCGGCTCCCGAGCAGCGCCGCGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 2769

QY 121 GGGCAGCCTCCCGAGCAGCGCCGCGAGAGCCCGGACAAATGGGGCGCGGCGCTGC 180

Db 2770 GGGCAGCCTCCCGAGCAGCGCCGCGAGAGCCCGGACAAATGGGGCGCGGCGCTGC 2829

QY 181 TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCCCGCTGTTGTCTGCCCGACCCCGGCCC 240

Db 2830 TGCTGGTGGCGCCTGCTTCAGTCTGTGCGGCCCGCTGTTGTCTGCCCGACCCCGGCCC 2889

QY 241 GCAGGC 246

Db 2890 GCAGGC 2895

Search completed: December 9, 2002, 05:12:19

Job time : 3343 secs

DB 87900 GCAGGCCAG 87908

Project Information

Center Project Name: 741600

Center clone name: CITB-H1_2297A3

Summary Statistics

Consensus quality: 79634 bases at least Q40

Consensus quality: 85629 bases at least Q30

Consensus quality: 87035 bases at least Q20

Estimated insert size: 87000; pulse field gel estimation

Estimated coverage: 7.1 in Q20 bases; sum-of-contigs estimation

Quality coverage: 6.99 in Q20 bases; sum-of-contigs estimation

Quality coverage: 6.99 in Q20 bases; sum-of-contigs estimation

* NOTE: This is a 'working draft' sequence. It currently

* consists of 10 contigs. Gaps between the contigs

* are represented as runs of N. The order of the pieces

* is believed to be correct as given, however the sizes

* of the gaps between them are based on estimates that have

* provided by the submittor.

* This sequence will be replaced

* by the finished sequence as soon as it is available and

* the accession number will be preserved.

* 1 7385: contig of 7385 bp in length

* 7386 7485: gap of unknown length

* 7486 9306: contig of 1821 bp in length

* 9307 9406: gap of unknown length

* 9407 11307: contig of 1901 bp in length

* 11308 11407: gap of unknown length

* 11408 53214: contig of 41807 bp in length

* 53215 53314: gap of unknown length

* 53315 61631: contig of 8317 bp in length

* 61632 61731: gap of unknown length

* 61732 69687: contig of 7956 bp in length

* 69688 69787: gap of unknown length

* 69788 72346: contig of 2559 bp in length

* 72347 72446: gap of unknown length

* 72447 77007: contig of 4561 bp in length

* 77008 77107: gap of unknown length

* 77108 85406: contig of 8299 bp in length

* 85407 85506: gap of unknown length

* 85507 88881: contig of 3375 bp in length.

FEATURES

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Best Local Similarity 100.0%; Pred. No. 2.4e-45;

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QY 61 AAGACCGGCTCCCGAGCAGCGCCGCGAGAGAGGGTGAAGCGGAGCAGCCCGAGGC 120

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QY 241 GCAGGCCAG 249

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